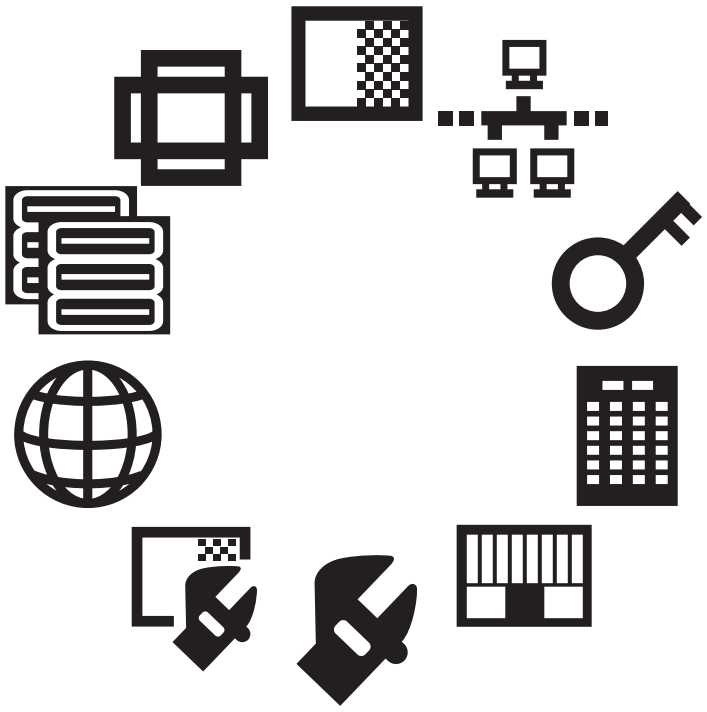
Panasonic

Functional Instructions

DLP™ Based Projector **Commercial Use**

Model No. **PT-DZ6710**
PT-DZ6700
PT-DW6300
PT-D6000
PT-D5000



The information of these instructions are shared use with multiple models of DZ6710 series, DZ6700 series, DW6300 series, D6000 series and D5000 series.

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ENGLISH

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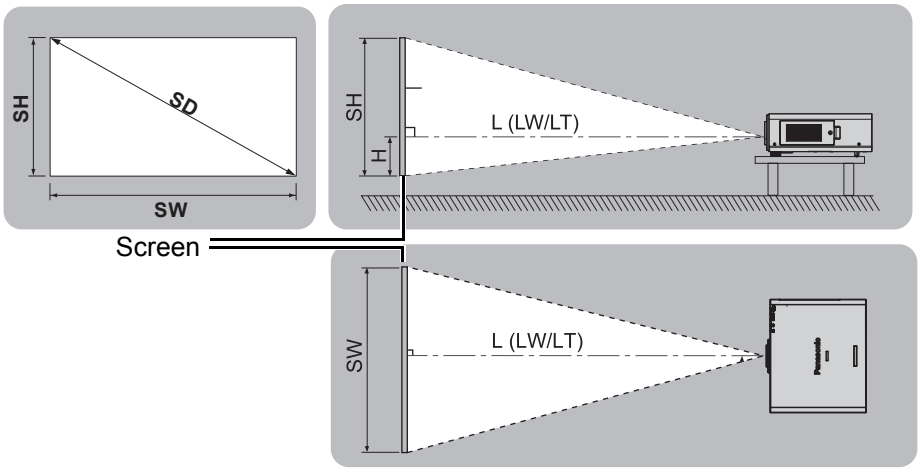
* Not available for PT-D5000.

Setting up

Screen size and throw distance

When planning the projector and screen geometry, refer to the figures below and the information on the following pages for reference. After the projector is roughly positioned, picture size and vertical picture positioning can be finely adjusted with the powered zoom lens and lens shifting mechanism.

Projected image
Shown as 16:10



L (LW/LT)	Projection distance
SH	Height of the projection area
SW	Width of the projection area
H	Vertical distance between the lens centre level and the bottom edge of the projected image.
SD	Diagonal length of the projection area

NOTE:

- All following measurements and the calculation results are approximate and may differ slightly from the actual measurements.
- The throw ratio is based on the value during projection onto an 80-inch screen size.
- Lens shift is not available when using the ET-DLE055, and so the height position (H) is SH/2.
- See the operating instructions that is provided with the projector.
- Special care should be used when DLP projectors are used in the same room as high power laser equipment. Direct or indirect hitting of a laser beam on to the lens can severely damage the Digital Mirror Devices™ in which case there is a loss of warranty.

Setting up

Projection distance by projection lens

PT-DZ6710/PT-DZ6700

- 16:10 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.3 - 1.9:1		2.3 - 3.6:1		3.6 - 5.4:1		5.5 - 8.6:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.673 2'2"	1.077 3'6"	1.90 6'2"	2.57 8'5"	0.83 2'8"	1.38 4'6"	2.01 6'7"	2.42 7'11"	3.87 12'8"	3.80 12'5"	5.82 19'1"	5.66 18'6"	9.12 29'11"	0 - 0.34 0 - 1'1"
60"	0.808 2'7"	1.292 4'2"	2.30 7'6"	3.10 10'2"	1.00 3'3"	1.66 5'5"	2.43 7'11"	2.92 9'6"	4.65 15'3"	4.59 15'	7.00 22'11"	6.85 22'5"	11.01 36'1"	0 - 0.4 0 - 1'3"
70"	0.942 3'1"	1.508 4'11"	2.69 8'9"	3.63 11'10"	1.18 3'10"	1.95 6'4"	2.84 9'3"	3.42 11'2"	5.44 17'10"	5.38 17'7"	8.19 26'10"	8.04 26'4"	12.89 42'3"	0 - 0.47 0 - 1'6"
80"	1.077 3'6"	1.723 5'7"	3.09 10'1"	4.16 13'7"	1.35 4'5"	2.23 7'3"	3.25 10'7"	3.92 12'10"	6.23 20'5"	6.16 20'2"	9.38 30'9"	9.24 30'3"	14.78 48'5"	0 - 0.54 0 - 1'9"
90"	1.212 3'11"	1.939 6'4"	3.48 11'5"	4.69 15'4"	1.53 5'	2.52 8'3"	3.66 12'	4.42 14'6"	7.02 23'	6.95 22'9"	10.57 34'8"	10.43 34'2"	16.66 54'7"	0 - 0.61 0 - 2'
100"	1.346 4'4"	2.154 7'	3.88 12'8"	5.22 17'1"	17.00 55'9"	2.81 9'2"	4.08 13'4"	4.92 16'1"	7.81 25'7"	7.74 25'4"	11.76 38'6"	11.62 38'1"	18.55 60'10"	0 - 0.67 0 - 2'2"
120"	1.615 5'3"	2.585 8'5"	4.67 15'3"	6.27 20'6"	2.05 6'8"	3.38 11'1"	4.90 16'	5.91 19'4"	9.39 30'9"	9.31 30'6"	14.14 46'4"	14.00 45'11"	23.32 76'6"	0 - 0.81 0 - 2'7"
150"	2.019 6'7"	3.231 10'7"	5.85 19'2"	7.86 25'9"	2.58 8'5"	4.24 13'10"	6.14 20'1"	7.41 24'3"	11.75 38'6"	11.68 38'3"	17.71 58'1"	17.58 57'8"	27.97 91'9"	0 - 1.01 0 - 3'3"
200"	2.692 8'9"	4.308 14'1"	7.83 25'8"	10.50 34'5"	3.45 11'3"	5.67 18'7"	8.20 26'10"	9.91 32'6"	15.70 51'6"	15.61 51'2"	23.66 77'7"	23.54 77'2"	37.39 122'8"	0 - 1.35 0 - 4'5"
250"	3.365 11'	5.385 17'8"	9.80 32'1"	13.15 43'1"		7.10 23'3"	10.26 33'7"	12.41 40'8"	19.64 64'5"	19.55 64'1"	29.61 97'1"	29.50 96'9"	46.81 153'6"	0 - 1.68 0 - 5'6"
300	4.039 13'3"	6.462 21'2"	11.78 38'7"	15.79 51'9"		8.53 27'11"	12.33 40'5"	14.91 48'11"	23.59 77'4"	23.49 77'	35.56 116'8"	35.46 116'4"	56.24 184'6"	0 - 2.02 0 - 6'7"
350"	4.712 15'5"	7.539 24'8"	13.75 45'1"	18.44 60'5"		9.96 32'8"	14.39 47'2"	17.40 57'1"	27.53 90'3"	27.42 89'11"	41.51 136'2"	41.42 135'10"	65.66 215'5"	0 - 2.36 0 - 7'8"
400"	5.385 17'8"	8.616 28'3"	15.73 51'7"	21.08 69'1"		11.39 37'4"	16.45 53'11"	19.90 65'3"	31.48 103'3"	31.36 102'10"	47.46 155'8"	47.38 155'5"	75.08 246'3"	0 - 2.69 0 - 8'9"
500"	6.731 22'1"	10.770 35'4"	19.68 64'6"	26.37 86'6"		14.25 46'9"	20.58 67'6"	24.90 81'8"	39.37 129'2"	39.24 128'8"	59.36 194'9"	59.30 194'6"	93.93 308'2"	0 - 3.37 0 - 11'
600"	8.077 26'5"	12.923 42'4"	23.63 77'6"	31.66 103'10"		17.11 56'1"	24.70 81'	29.89 98'	47.26 155'	47.11 154'6"	71.26 233'9"	71.22 233'7"	112.77 369'11"	0 - 4.04 0 - 13'3"

- 16:9 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.3 - 1.9:1		2.3 - 3.6:1		3.6 - 5.4:1		5.5 - 8.6:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.623 2'	1.107 3'7"	1.96 6'5"	2.65 8'8"	0.85 2'9"	1.42 4'7"	2.07 6'9"	2.49 8'2"	3.98 13'	3.91 12'9"	5.98 19'7"	5.82 19'1"	9.39 30'9"	-0.06 - 0.31 -2" - 1'
60"	0.747 2'5"	1.328 4'4"	2.36 7'8"	3.19 10'5"	1.03 3'4"	1.71 5'7"	2.49 8'2"	3 9'10"	4.79 15'8"	4.72 15'5"	7.2 23'7"	7.05 23'1"	11.32 37'1"	-0.08 - 0.37 -3" - 1'2"
70"	0.872 2'10"	1.55 5'1"	2.77 9'1"	3.73 12'2"	1.21 3'11"	2 6'6"	2.92 9'6"	3.51 11'6"	5.6 18'4"	5.53 18'1"	8.43 27'7"	8.28 27'1"	13.26 43'6"	-0.09 - 0.44 -3" - 1'5"
80"	0.996 3'3"	1.771 5'9"	3.17 10'4"	4.28 14'	1.39 4'6"	2.3 7'6"	3.34 10'11"	4.03 13'2"	6.41 21'	6.34 20'9"	9.65 31'7"	9.5 31'2"	15.2 49'10"	-0.10 - 0.50 -3" - 1'7"
90"	1.121 3'8"	1.992 6'6"	3.58 11'8"	4.82 15'9"	1.57 5'1"	2.59 8'5"	3.77 12'4"	4.54 14'10"	7.22 23'8"	7.15 23'5"	10.87 35'7"	10.73 35'2"	17.13 56'2"	-0.11 - 0.56 -4" - 1'10"
100"	1.245 4'1"	2.214 7'3"	3.99 13'1"	5.36 17'7"	1.75 5'8"	2.89 9'5"	4.19 13'8"	5.05 16'6"	8.03 26'4"	7.96 26'1"	12.09 39'7"	11.95 39'2"	19.07 62'6"	-0.13 - 0.62 -5" - 2'
120"	1.494 4'10"	2.657 8'8"	4.8 15'8"	6.45 21'1"	2.11 6'11"	3.47 11'4"	5.04 16'6"	6.08 19'11"	9.65 31'7"	9.58 31'5"	14.54 47'8"	14.4 47'2"	22.94 75'3"	-0.15 - 0.75 -5" - 2'5"
150"	1.868 6'1"	3.321 10'10"	6.02 19'9"	8.08 26'6"	2.65 8'8"	4.36 14'3"	6.31 20'8"	7.62 25'	12.08 39'7"	12 39'4"	18.21 59'8"	18.08 59'3"	28.75 94'3"	-0.19 - 0.93 -7" - 3'
200"	2.491 8'2"	4.428 14'6"	8.05 26'4"	10.8 35'5"	3.55 11'7"	5.83 19'1"	8.43 27'7"	10.19 33'5"	16.14 52'11"	16.05 52'7"	24.32 79'9"	24.2 79'4"	38.44 126'1"	-0.25 - 1.25 -9" - 4'1"
250"	3.113 10'2"	5.535 18'1"	10.08 33'	13.52 44'4"		7.29 23'11"	10.55 34'7"	12.76 41'10"	20.19 66'2"	20.1 65'11"	30.44 99'10"	30.33 99'6"	48.12 157'10"	-0.31 - 1.56 -1' - 5'1"
300	3.736 12'3"	6.641 21'9"	12.11 39'8"	16.23 53'2"		8.76 28'8"	12.67 41'6"	15.32 50'3"	24.25 79'6"	24.14 79'2"	36.55 119'10"	36.45 119'7"	57.81 189'7"	-0.37 - 1.87 -1'2" - 6'1"
350"	4.358 14'3"	7.748 25'5"	14.14 46'4"	18.95 62'2"		10.23 33'6"	14.79 48'6"	17.89 58'8"	28.3 92'10"	28.19 92'5"	42.67 139'11"	42.58 139'8"	67.49 221'5"	-0.44 - 2.18 -1'5" - 7'1"
400"	4.981 16'4"	8.855 29'	16.17 53'	21.67 71'1"		11.7 38'4"	16.91 55'5"	20.46 67'1"	32.35 106'1"	32.24 105'9"	48.78 160'	48.71 159'9"	77.18 253'2"	-0.50 - 2.49 -1'7" - 8'2"
500"	6.226 20'5"	11.069 36'3"	20.23 66'4"	27.11 88'11"		14.64 48'	21.15 69'4"	25.59 83'11"	40.46 132'8"	40.33 132'3"	64.01 210'	60.96 200'	96.55 316'9"	-0.62 - 3.11 -2' - 10'2"
600"	7.472 24'6"	13.283 43'6"	24.29 79'8"	32.54 106'9"		17.58 57'8"	25.39 83'3"	30.72 100'9"	48.57 159'4"	48.42 158'10"	73.24 240'3"	73.21 240'2"	115.92 380'3"	-0.75 - 3.74 -2'5" - 12'3"

PT-DW6300

- 16:10 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.4 - 2.0:1		2.4 - 3.8:1		3.8 - 5.7:1		5.6 - 9.0:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.673 2'2"	1.077 3'6"	1.92 6'3"	2.56 8'4"	0.87 2'10"	1.45 4'9"	2.12 6'11"	2.54 8'4"	4.06 13'3"	4 13'1"	6.11 20'	5.96 19'6"	9.6 31'5"	-0.07 - 0.34 -2" - 1'1"
60"	0.808 2'7"	1.292 4'2"	2.32 7'7"	3.08 10'1"	1.06 3'5"	1.75 5'8"	2.55 8'4"	3.07 10'	4.89 16'	4.83 15'10"	7.36 24'1"	7.21 23'7"	11.57 37'11"	-0.08 - 0.40 -3" - 1'3"
70"	0.942 3'1"	1.508 4'11"	2.72 8'11"	3.61 11'10"	1.24 4'	2.05 6'8"	2.98 9'9"	3.59 11'9"	5.72 18'9"	5.65 18'6"	8.61 28'2"	8.46 27'9"	13.55 44'5"	-0.09 - 0.47 -3" - 1'6"
80"	1.077 3'6"	1.723 5'7"	3.11 10'2"	4.13 13'6"	1.42 4'7"	2.35 7'8"	3.42 11'2"	4.12 13'6"	6.55 21'5"	6.48 21'3"	9.86 32'4"	9.71 31'10"	15.53 50'11"	-0.11 - 0.54 -4" - 1'9"
90"	1.212 3'11"	1.939 6'4"	3.51 11'6"	4.65 15'3"	1.61 5'3"	2.65 8'8"	3.85 12'7"	4.64 15'2"	7.38 24'2"	7.31 23'11"	11.11 36'5"	10.96 35'11"	17.51 57'5"	-0.12 - 0.61 -4" - 2'
100"	1.346 4'4"	2.154 7'	3.91 12'9"	5.18 16'11"	1.79 5'10"	2.95 9'8"	4.28 14'	5.17 16'11"	8.2 26'10"	8.13 26'8"	12.36 40'6"	12.22 40'1"	19.49 63'11"	-0.14 - 0.67 -5" - 2'2"
120"	1.615 5'3"	2.585 8'5"	4.7 15'5"	6.23 20'5"	2.16 7'1"	3.55 11'7"	5.15 16'10"	6.21 20'4"	9.86 32'4"	9.79 32'1"	14.86 48'9"	14.72 48'3"	23.45 76'11"	-0.16 - 0.81 -6" - 2'7"
150"	2.019 6'7"	3.231 10'7"	5.9 19'4"	7.8 25'7"	2.71 8'10"	4.45 14'7"	6.45 21'1"	7.79 25'6"	12.35 40'6"	12.27 40'3"	18.61 61'	18.47 60'7"	29.38 96'4"	-0.2 - 1.01 -7" - 3'3"
200"	2.692 8'9"	4.308 14'1"	7.88 25'10"	10.42 34'2"	3.63 11'10"	5.95 19'6"	8.61 28'2"	10.41 34'1"	16.49 54'1"	16.4 53'9"	24.85 81'6"	24.73 81'1"	39.28 128'10"	-0.27 - 1.35 -10" - 4'5"
250"	3.365 11'	5.385 17'8"	9.87 32'4"	13.04 42'9"		7.45 24'5"	10.78 35'4"	13.03 42'8"	20.63 67'8"	20.53 67'4"	31.1 102'	30.99 101'8"	49.17 161'3"	-0.34 - 1.68 -1'1" - 5'6"
300"	4.039 13'3"	6.462 21'2"	11.86 38'10"	15.66 51'4"		8.96 29'4"	12.95 42'5"	15.65 51'4"	24.77 81'3"	24.67 80'11"	37.35 122'6"	37.25 122'2"	59.06 193'9"	-0.4 - 2.02 -1'3" - 6'7"
350"	4.712 15'5"	7.539 24'8"	13.85 45'5"	18.28 59'11"		10.46 34'3"	15.11 49'6"	18.28 59'11"	28.91 94'10"	28.8 94'5"	43.59 143'	43.51 142'8"	68.96 226'2"	-0.47 - 2.36 -1'6" - 7'8"
400"	5.385 17'8"	8.616 28'3"	15.83 51'11"	20.9 68'6"		11.96 39'2"	17.28 56'8"	20.9 68'6"	33.06 108'5"	32.94 108'	49.84 163'6"	49.76 163'3"	78.85 258'8"	-0.54 - 2.69 -1'9" - 8'9"
500"	6.731 22'1"	10.77 35'4"	19.81 64'11"	26.15 85'9"		14.96 49'	21.61 70'10"	26.14 85'9"	41.34 135'7"	41.2 135'2"	62.33 204'5"	62.28 204'3"	98.64 323'7"	-0.67 - 3.37 -2'2" - 11'
600"	8.077 26'5"	12.923 42'4"	23.78 78'	31.39 102'11"		17.96 58'11"	25.94 85'1"	31.39 102'11"	49.62 162'9"	49.47 162'3"	74.82 245'5"	74.8 245'4"	118.43 388'6"	-0.81 - 4.04 -2'7" - 13'3"

- 16:9 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.4 - 2.0:1		2.4 - 3.8:1		3.8 - 5.7:1		5.6 - 9.0:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.623 2'	1.107 3'7"	1.98 6'5"	2.63 8'7"	0.9 2'11"	1.49 4'10"	2.18 7'1"	2.62 8'7"	4.18 13'8"	4.11 13'5"	6.29 20'7"	6.13 20'1"	9.87 32'4"	-0.14 - 0.31 -5" - 1'
60"	0.747 2'5"	1.328 4'4"	2.39 7'10"	3.17 10'4"	1.09 3'6"	1.8 5'10"	2.62 8'7"	3.15 10'4"	5.03 16'6"	4.96 16'3"	7.57 24'10"	7.42 24'4"	11.9 39'	-0.16 - 0.37 -6" - 1'2"
70"	0.872 2'10"	1.55 5'1"	2.79 9'1"	3.71 12'2"	1.28 4'2"	2.11 6'11"	3.07 10'	3.69 12'1"	5.88 19'3"	5.81 19'	8.85 29'	8.7 28'6"	13.94 45'8"	-0.19 - 0.44 -7" - 1'5"
80"	0.996 3'3"	1.771 5'9"	3.2 10'5"	4.25 13'11"	1.46 4'9"	2.42 7'11"	3.51 11'6"	4.23 13'10"	6.73 22'	6.66 21'10"	10.14 33'3"	9.99 32'9"	15.97 52'4"	-0.22 - 0.50 -8" - 1'7"
90"	1.121 3'8"	1.992 6'6"	3.61 11'10"	4.79 15'8"	1.65 5'4"	2.72 8'11"	3.96 12'11"	4.77 15'7"	7.58 24'10"	7.51 24'7"	11.42 37'5"	11.28 37'	18.01 59'1"	-0.25 - 0.56 -9" - 1'10"
100"	1.245 4'1"	2.214 7'3"	4.02 13'2"	5.32 17'5"	1.84 6'	3.03 9'11"	4.4 14'5"	5.31 17'5"	8.44 27'8"	8.36 27'5"	12.71 41'8"	12.56 41'2"	20.04 65'8"	-0.27 - 0.62 -10" - 2'
120"	1.494 4'10"	2.657 8'8"	4.84 15'10"	6.4 20'11"	2.22 7'3"	3.65 11'11"	5.29 17'4"	6.39 20'11"	10.14 33'3"	10.06 33'	15.27 50'1"	15.14 49'8"	24.11 79'1"	-0.33 - 0.75 -1' - 2'5"
150"	1.868 6'1"	3.321 10'10"	6.06 19'10"	8.02 26'3"	2.79 9'1"	4.58 15'	6.63 21'9"	8.01 26'3"	12.69 41'7"	12.61 41'4"	19.13 62'9"	19.00. 62'4"	30.21 99'1"	-0.41 - 0.93 -1'4" - 3'
200"	2.491 8'2"	4.428 14'6"	8.11 26'7"	10.71 35'1"	3.73 12'2"	6.12 20'	8.86 29'	10.7 35'1"	16.95 55'7"	16.86 55'3"	25.55 83'9"	25.43 83'5"	40.38 132'5"	-0.55 - 1.25 -1'9" - 4'1"
250"	3.113 10'2"	5.535 18'1"	10.15 33'3"	13.41 43'11"		7.66 25'1"	11.08 36'4"	13.4 43'11"	21.21 69'7"	21.11 69'3"	31.97 104'10"	31.86 104'6"	50.54 165'9"	-0.69 - 1.56 -2'3" - 5'1"
300"	3.736 12'3"	6.641 21'9"	12.19 39'11"	16.1 52'9"		9.21 30'2"	13.31 43'8"	16.09 52'9"	25.46 83'6"	25.36 83'2"	38.39 125'11"	38.29 125'7"	60.71 199'2"	-0.82 - 1.87 -2'8" - 6'1"
350"	4.358 14'3"	7.748 25'5"	14.23 46'8"	18.79 61'7"		10.75 35'3"	15.53 50'11"	18.79 61'7"	29.72 97'6"	29.61 97'1"	44.81 147'	44.72 146'8"	70.88 232'6"	-0.96 - 2.18 -3'1" - 7'1"
400"	4.981 16'4"	8.855 29'	16.27 53'4"	21.49 70'6"		12.29 40'3"	17.76 58'3"	21.48 70'5"	33.98 111'5"	33.86 111'1"	51.23 168'	51.16 167'10"	81.05 265'10"	-1.1- 2.49 -3'7" - 8'2"
500"	6.226 20'5"	11.069 36'3"	20.36 66'9"	26.87 88'1"		15.38 50'5"	22.21 72'10"	26.87 88'1"	42.49 139'4"	42.35 138'11"	64.07 210'2"	64.02 210'	101.39 332'7"	-1.37 - 3.11 -4'5" - 10'2"
600"	7.472 24'6"	13.283 43'6"	24.44 80'2"	32.26 105'10"		18.46 60'6"	26.67 87'6"	32.26 105'10"	51 167'3"	50.85 166'9"	76.91 252'3"	76.89 252'3"	121.73 399'4"	-1.64 - 3.74 -5'4" - 12'3"

Setting up

PT-D6000/PT-D5000

- 16:10 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.3 - 2.0:1		2.4 - 3.7:1		3.7 - 5.6:1		5.5 - 8.9:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.762 2'6"	1.016 3'4"	1.79 5'10"	2.38 7'9"	0.81 2'7"	1.34 4'4"	1.97 6'5"	2.36 7'8"	3.78 12'4"	3.71 12'2"	5.68 18'7"	5.53 18'1"	8.91 29'2"	0 - 0.38 0 - 1'2"
60"	0.914 2'11"	1.219 3'11"	2.16 7'1"	2.86 9'4"	0.98 3'2"	1.62 5'3"	2.37 7'9"	2.85 9'4"	4.55 14'11"	4.48 14'8"	6.84 22'5"	6.69 21'11"	10.75 35'3"	0 - 0.46 0 - 1'6"
70"	1.067 3'6"	1.422 4'7"	2.53 8'3"	3.35 10'11"	1.15 3'9"	1.9 6'2"	2.77 9'1"	3.34 10'11"	5.32 17'5"	5.25 17'2"	8.01 26'3"	7.86 25'9"	12.6 41'4"	0 - 0.53 0 - 1'8"
80"	1.219 3'11"	1.626 5'4"	2.9 9'6"	3.84 12'7"	1.32 4'3"	2.18 7'1"	3.18 10'5"	3.83 12'6"	6.09 19'11"	6.02 19'9"	9.17 30'1"	9.02 29'7"	14.44 47'4"	0 - 0.61 0 - 2'
90"	1.372 4'6"	1.829 6'	3.27 10'8"	4.33 14'2"	1.49 4'10"	2.46 8'	3.58 11'8"	4.32 14'2"	6.86 22'6"	6.79 22'3"	10.33 33'10"	10.19 33'5"	16.28 53'4"	0 - 0.69 0 - 2'3"
100"	1.524 5'	2.032 6'8"	3.64 11'11"	4.82 15'9"	1.66 5'5"	2.74 8'11"	3.98 13'	4.8 15'8"	7.63 25'	7.56 24'9"	11.5 37'8"	11.35 37'2"	18.12 59'5"	0 - 0.76 0 - 2'5"
120"	1.829 6'	2.438 7'11"	4.38 14'4"	5.79 18'11"	2.01 6'7"	3.3 10'9"	4.79 15'8"	5.78 18'11"	9.18 30'1"	9.1 29'10"	13.82 45'4"	13.68 44'10"	21.81 71'6"	0 - 0.91 0 - 2'11"
150"	2.286 7'6"	3.048 10'	5.49 18'	7.26 23'9"	2.52 8'3"	4.14 13'6"	6 19'8"	7.24 23'9"	11.49 37'8"	11.41 37'5"	17.31 56'9"	17.18 56'4"	27.33 89'7"	0 - 1.14 0 - 3'8"
200"	3.048 10'	4.064 13'4"	7.34 24'	9.7 31'9"	3.38 11'1"	5.54 18'2"	8.02 26'3"	9.69 31'9"	15.34 50'3"	15.26 50'	23.13 75'10"	23 75'5"	36.54 119'10"	0 - 1.52 0 - 4'11"
250"	3.81 12'6"	5.08 16'8"	9.19 30'1"	12.14 39'9"		6.94 22'9"	10.03 32'10"	12.13 39'9"	19.2 62'11"	19.11 62'8"	28.94 94'11"	28.83 94'7"	45.76 150'1"	0 - 1.91 0 - 6'3"
300	4.572 15'	6.096 20'	11.04 36'2"	14.58 47'10"		8.33 27'3"	12.05 39'6"	14.57 47'9"	23.06 75'7"	22.96 75'3"	34.76 114'	34.66 113'8"	54.97 180'4"	0 - 2.29 0 - 7'6"
350"	5.334 17'6"	7.112 23'4"	12.89 42'3"	17.02 55'10"		9.73 31'11"	14.07 46'1"	17.01 55'9"	26.91 88'3"	26.81 87'11"	40.57 133'1"	40.48 132'9"	64.18 210'6"	0 - 2.67 0 - 8'9"
400"	6.096 20'	8.128 26'8"	14.74 48'4"	19.46 63'10"		11.13 36'6"	16.08 52'9"	19.45 63'9"	30.77 100'11"	30.65 100'6"	46.39 152'2"	46.31 151'11"	73.39 240'9"	0 - 3.05 0 - 10'
500"	7.62 25'	10.16 33'4"	18.44 60'5"	24.34 79'10"		13.92 45'8"	20.12 66'	24.33 79'9"	38.48 126'2"	38.35 125'9"	58.02 190'4"	57.96 190'1"	91.81 301'2"	0 - 3.81 0 - 12'6"
600"	9.144 30'	12.192 40'	22.14 72'7"	29.22 95'10"		16.72 54'10"	24.15 79'2"	29.22 95'10"	46.19 151'6"	46.05 151'	69.65 228'6"	69.61 228'4"	110.23 361'7"	0 - 4.57 0 - 14'11"

- 16:9 (Unit: m)

Lens type			Standard zoom lens		Optional lens									Height
Lens names					ET-DLE055	ET-DLE150		ET-DLE250		ET-DLE350		ET-DLE450		
Through ratio			1.8 - 2.4:1		0.8:1	1.3 - 2.0:1		2.4 - 3.7:1		3.7 - 5.6:1		5.6 - 8.9:1		
SD	SH	SW	LW	LT	Fixed	LW	LT	LW	LT	LW	LT	LW	LT	H
50"	0.623 2'	1.107 3'7"	1.95 6'4"	2.6 8'6"	0.89 2'11"	1.47 4'9"	2.15 7'	2.58 8'5"	4.12 13'6"	4.06 13'3"	6.2 20'4"	6.05 19'10"	9.74 31'11"	-0.21 - 0.31 -8" - 1'
60"	0.747 2'5"	1.328 4'4"	2.35 7'8"	3.13 10'3"	1.07 3'6"	1.77 5'9"	2.59 8'5"	3.11 10'2"	4.96 16'3"	4.9 16'	7.47 24'6"	7.32 24'	11.74 38'6"	-0.25 - 0.37 -9" - 1'2"
70"	0.872 2'10"	1.55 5'1"	2.76 9'	3.66 12'	1.26 4'1"	2.08 6'9"	3.03 9'11"	3.64 11'11"	5.8 19'	5.74 18'9"	8.74 28'8"	8.59 28'2"	13.75 45'1"	-0.29 - 0.44 -11" - 1'5"
80"	0.996 3'3"	1.771 5'9"	3.16 10'4"	4.19 13'8"	1.44 4'8"	2.38 7'9"	3.47 11'4"	4.18 13'8"	6.64 21'9"	6.57 21'6"	10 32'9"	9.85 32'3"	15.76 51'8"	-0.33 - 0.50 -1' - 1'7"
90"	1.121 3'8"	1.992 6'6"	3.56 11'8"	4.72 15'5"	1.63 5'4"	2.69 8'9"	3.91 12'9"	4.71 15'5"	7.48 24'6"	7.41 24'3"	11.27 36'11"	11.12 36'5"	17.76 58'3"	-0.37 - 0.56 -1'2" - 1'10"
100"	1.245 4'1"	2.214 7'3"	3.97 13'	5.25 17'2"	1.82 5'11"	2.99 9'9"	4.34 14'2"	5.24 17'2"	8.32 27'3"	8.25 27'	12.54 41'1"	12.39 40'7"	19.77 64'10"	-0.41 - 0.62 -1'4" - 2'
120"	1.494 4'10"	2.657 8'8"	4.77 15'7"	6.32 20'8"	2.19 7'2"	3.6 11'9"	5.22 17'1"	6.3 20'8"	10 32'9"	9.93 32'6"	15.07 49'5"	14.93 48'11"	23.79 78'	-0.49 - 0.75 -1'7" - 2'5"
150"	1.868 6'1"	3.321 10'10"	5.98 19'7"	7.91 25'11"	2.75 9'	4.52 14'9"	6.54 21'5"	7.9 25'11"	12.52 41'	12.44 40'9"	18.87 61'10"	18.74 61'5"	29.81 97'9"	-0.62 - 0.93 -2" - 3'
200"	2.491 8'2"	4.428 14'6"	8 26'2"	10.57 34'8"	3.68 12'	6.04 19'9"	8.74 28'8"	10.56 34'7"	16.72 54'10"	16.64 54'7"	25.21 82'8"	25.09 82'3"	39.84 130'8"	-0.82 - 1.25 -2'8" - 4'1"
250"	3.113 10'2"	5.535 18'1"	10.01 32'10"	13.23 43'4"		7.56 24'9"	10.94 35'10"	13.22 43'4"	20.93 68'8"	20.83 68'4"	31.54 103'5"	31.44 103'1"	49.88 163'7"	-1.03 - 1.56 -3'4" - 5'1"
300	3.736 12'3"	6.641 21'9"	12.03 39'5"	15.89 52'1"		9.08 29'9"	13.13 43'	15.88 52'1"	25.13 82'5"	25.02 82'1"	37.88 124'3"	37.78 123'11"	59.91 196'6"	-1.23 - 1.87 -4' - 6'1"
350"	4.358 14'3"	7.748 25'5"	14.04 46'	18.54 60'9"		10.61 34'9"	15.33 50'3"	18.54 60'9"	29.33 96'2"	29.22 95'10"	44.22 145'	44.13 144'9"	69.95 229'5"	-1.44 - 2.18 -4'8" - 7'1"
400"	4.981 16'4"	8.855 29'	16.06 52'8"	21.2 69'6"		12.13 39'9"	17.53 57'6"	21.2 69'6"	33.53 110'	33.41 109'7"	50.55 165'10"	50.48 165'7"	79.98 262'4"	-1.64 - 2.49 -5'4" - 8'2"
500"	6.226 20'5"	11.069 36'3"	20.09 65'10"	26.52 87'		15.18 49'9"	21.92 71'10"	26.52 87'	41.93 137'6"	41.79 137'1"	63.22 207'4"	63.17 207'3"	100.05 328'2"	-2.06 - 3.11 -6'9" - 10'2"
600"	7.472 24'6"	13.283 43'6"	24.12 79'1"	31.84 104'5"		18.22 59'9"	26.31 86'3"	31.84 104'5"	50.33 165'1"	50.18 164'7"	75.89 248'11"	75.87 248'11"	120.12 394'1"	-2.47 - 3.74 -8'1" - 12'3"

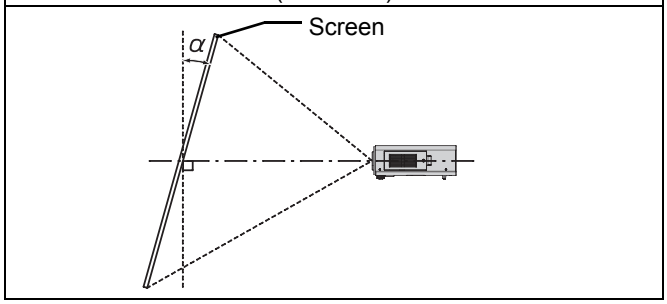
Calculation formulas for projection distance by lens types

Names	Type	Through ratio	Aspect ratio	Projection distance formula
• PT-DZ6710/PT-DZ6700				
Standard zoom lens		1.8 - 2.4:1	16:10	LW = 0.0395 x SD - 0.0744
				LT = 0.0529 x SD - 0.0734
			16:9	LW = 0.0406 x SD - 0.0745
				LT = 0.0544 x SD - 0.0734
ET-DLE055	Fixed-focus lens	0.8:1	16:10	LW = 0.0175 x SD - 0.0476
			16:9	LT = 0.0180 x SD - 0.0476
ET-DLE150	Wide-angle zoom lens	1.3 - 1.8:1	16:10	LW = 0.0286 x SD - 0.0540
				LT = 0.0413 x SD - 0.0498
			16:9	LW = 0.0294 x SD - 0.0540
				LT = 0.0424 x SD - 0.0498
ET-DLE250	Intermediate-focus zoom lens	2.4 - 4.0:1	16:10	LW = 0.0500 x SD - 0.0800
				LT = 0.0789 x SD - 0.0792
			16:9	LW = 0.0513 x SD - 0.0800
				LT = 0.0811 x SD - 0.0792
ET-DLE350	Long-focus zoom lens	3.8 - 6.0:1	16:10	LW = 0.0787 x SD - 0.1351
				LT = 0.1190 x SD - 0.1346
			16:9	LW = 0.0809 x SD - 0.1351
				LT = 0.1223 x SD - 0.1346
ET-DLE450	Ultra-long-focus zoom lens	5.8 - 8.1:1	16:10	LW = 0.1192 x SD - 0.3017
				LT = 0.1885 x SD - 0.2991
			16:9	LW = 0.1225 x SD - 0.3017
				LT = 0.1937 x SD - 0.2991
• PT-DW6300				
Standard zoom lens		1.8 - 2.4:1	16:10	LW= 0.0397 x SD - 0.0650
				LT= 0.0524 x SD - 0.0638
			16:9	LW= 0.0408 x SD - 0.0650
				LT= 0.0539 x SD - 0.0638
ET-DLE055	Fixed-focus lens	0.8:1	16:10	LW= 0.0184 x SD - 0.0476
			16:9	LT= 0.0189 x SD - 0.0476
ET-DLE150	Wide-angle zoom lens	1.3 - 1.8:1	16:10	LW= 0.0300 x SD - 0.0540
				LT= 0.0433 x SD - 0.0498
			16:9	LW= 0.0309 x SD - 0.0540
				LT= 0.0445 x SD - 0.0498
ET-DLE250	Intermediate-focus zoom lens	2.4 - 4.0:1	16:10	LW= 0.0524 x SD - 0.0800
				LT= 0.0828 x SD - 0.0792
			16:9	LW= 0.0539 x SD - 0.0800
				LT= 0.0851 x SD - 0.0792
ET-DLE350	Long-focus zoom lens	3.8 - 6.0:1	16:10	LW= 0.0827 x SD - 0.1351
				LT= 0.1249 x SD - 0.1346
			16:9	LW= 0.0850 x SD - 0.1351
				LT= 0.1284 x SD - 0.1346
ET-DLE450	Ultra-long-focus zoom lens	5.8 - 8.1:1	16:10	LW= 0.1252 x SD - 0.3017
				LT= 0.1979 x SD - 0.2991
			16:9	LW= 0.1286 x SD - 0.3017
				LT= 0.2034 x SD - 0.2991
• PT-D6000/PT-D5000				
Standard zoom lens		1.8 - 2.4:1	16:10	LW = 0.0370 x SD - 0.0650
				LT = 0.0488 x SD - 0.0638
			16:9	LW = 0.0403 x SD - 0.0650
				LT = 0.0532 x SD - 0.0638
ET-DLE055	Fixed-focus lens	0.8:1	16:10	LW = 0.0171 x SD - 0.0476
			16:9	LT = 0.0186 x SD - 0.0476
ET-DLE150	Wide-angle zoom lens	1.3 - 1.8:1	16:10	LW = 0.0280 x SD - 0.0540
				LT = 0.0403 x SD - 0.0498
			16:9	LW = 0.0305 x SD - 0.0540
				LT = 0.0439 x SD - 0.0498
ET-DLE250	Intermediate-focus zoom lens	2.4 - 4.0:1	16:10	LW = 0.0488 x SD - 0.0800
				LT = 0.0771 x SD - 0.0792
			16:9	LW = 0.0532 x SD - 0.0800
				LT = 0.0840 x SD - 0.0792
ET-DLE350	Long-focus zoom lens	3.8 - 6.0:1	16:10	LW = 0.0770 x SD - 0.1351
				LT = 0.1163 x SD - 0.1346
			16:9	LW = 0.0839 x SD - 0.1351
				LT = 0.1267 x SD - 0.1346
ET-DLE450	Ultra-long-focus zoom lens	5.8 - 8.1:1	16:10	LT = 0.1165 x SD - 0.3017
				LT = 0.1842 x SD - 0.2991
			16:9	LT = 0.1270 x SD - 0.3017
				LT = 0.2007 x SD - 0.2991

Geometric adjustment

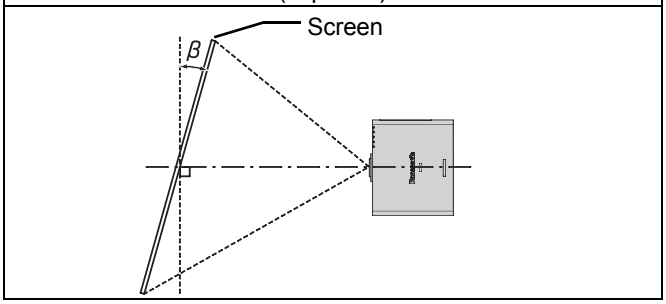
VERTICAL KEYSTONE

(Side view)



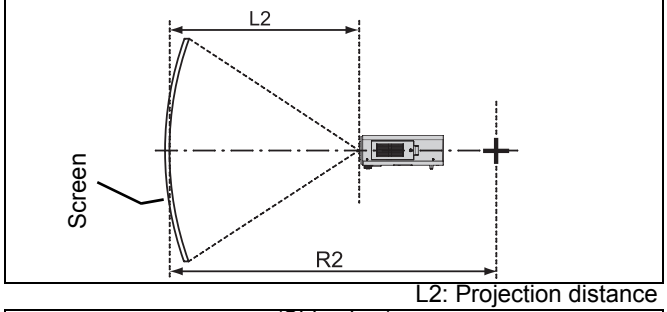
HORIZONTAL KEYSTONE

(Top view)



VERTICAL ARC

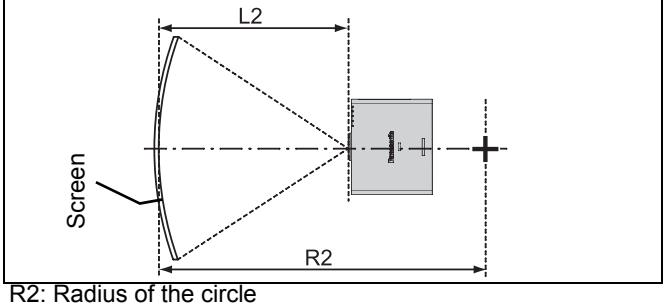
(Side view)



L2: Projection distance

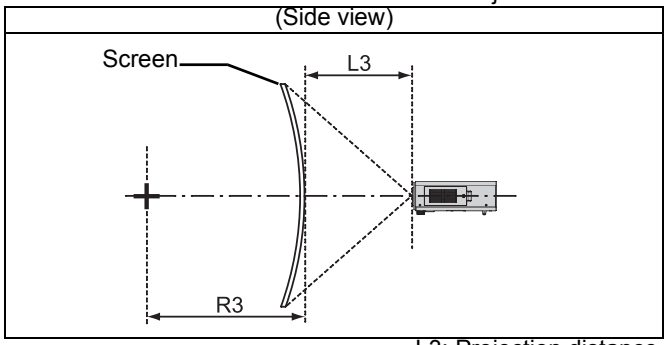
HORIZONTAL ARC

(Top view)



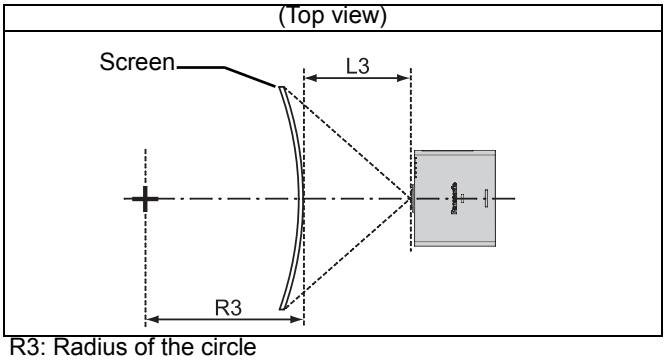
R2: Radius of the circle

(Side view)



L3: Projection distance

(Top view)



R3: Radius of the circle

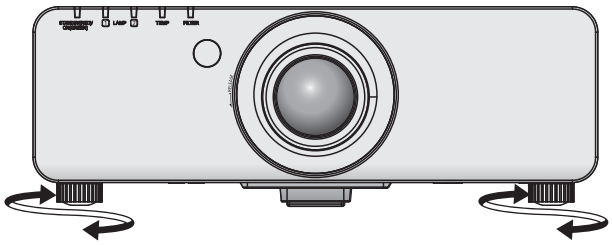
		Standard	ET-DLE055	ET-DLE150	ET-DLE250	ET-DLE350	ET-DLE450
Keystone correction	VERTICAL KEYSTONE Correction angle α (°)	40	30	40	40	40	40
	HORIZONTAL KEYSTONE Correction angle β (°)	15	15	15	15	15	15
Keystone and arc correction	VERTICAL KEYSTONE Correction angle α (°)	5	5	5	5	10	10
	HORIZONTAL KEYSTONE Correction angle β (°)	5	5	5	5	10	15
	R2/L2 minimum value	1.2	3	1.6	1.2	0.8	0.6
	R3/L3 minimum value	2.4	6	3.2	2.4	1.6	1
Arc correction	R2/L2 minimum value	0.6	1.5	0.8	0.6	0.4	0.3
	R3/L3 minimum value	1.2	4.3	1.6	1.2	0.8	0.5

NOTE:

- When using geometric adjustment, if the amount of compensation is too great, excessive blurring may result.
- The curved screens illustrated are simply sections of a full circle.

Front leg adjusters and throwing angle

You can screw up/down the front leg adjusters to control the angle of the projector for adjusting the throwing angle.



NOTE:

- Heated air comes out of the air exhaust port. Do not touch the air exhaust port directly.

Connections

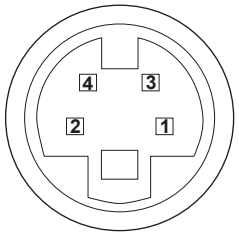
Before connection to the projector

- Read and follow the operating and connecting instructions of each peripheral device.
- The peripheral devices must be turned off.
- Use cables that match each peripheral device to be connected.
- If the input signal is affected by signal jitter, the projected image may have poor image quality and timebase correction is effective.
- Confirm the type of video signals.
- The projector accepts the following signals: VIDEO, S-VIDEO, analogue-RGB (with TTL sync. Level) and digital signal.
- Some computer models are not compatible with the projector.
- When using long cables to connect with each of equipment to the projector, there is a possibility that the image will not be output correctly unless a compensator is used.

Pin assignments and signal names

S-VIDEO IN

Pin No.	Signal names
1	Ground (luminance)
2	Ground (colour)
3	Luminance signal
4	Colour signal

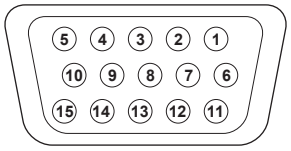


RGB2 IN

Pin No.	Signal names
1	R/PR
2	G/G • SYNC/Y
3	B/PB
12	DDC data
13	HD/SYNC
14	VD
15	DDC clock

4, 9:
Not assigned

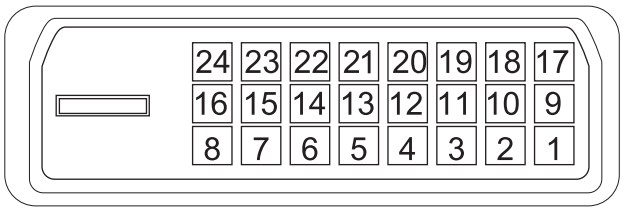
5 - 8, 10, 11:
GND terminals



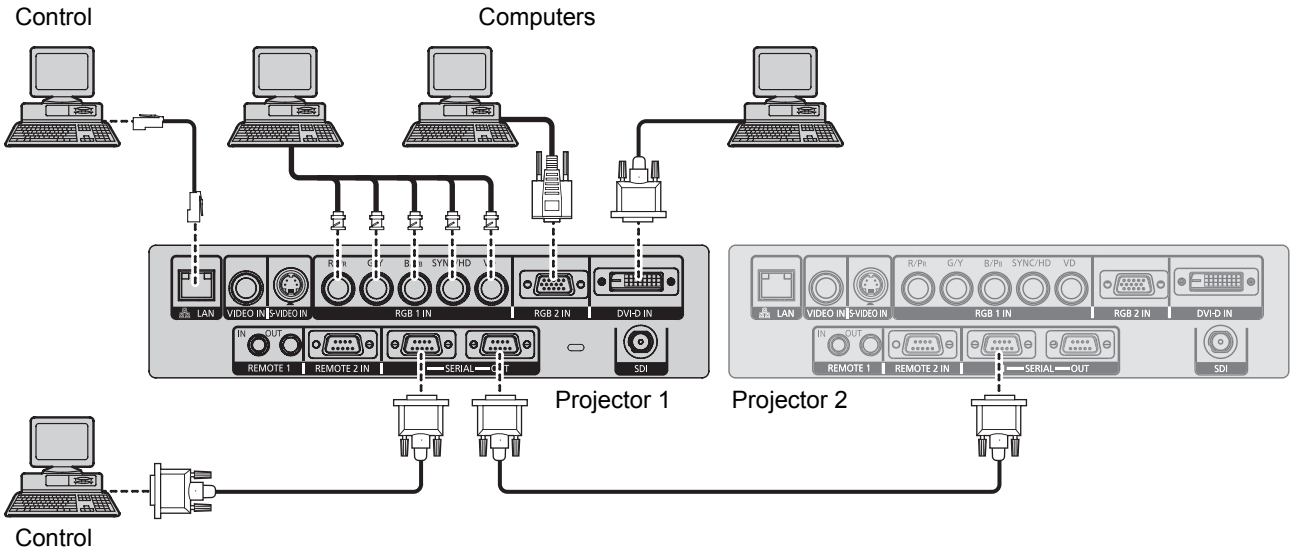
DVI-D IN

Pin No.	Signal names
1	TMDS Data 2-
2	TMDS Data 2+
3	TMDS Data 2/4 shield
4	
5	
6	DDC clock
7	DDC data
8	
9	TMDS Data 1-
10	TMDS Data 1+
11	TMDS Data 1/3 shield
12	

Pin No.	Signal names
13	
14	+5V
15	GND
16	Hot Plug Detect
17	TMDS Data 0-
18	TMDS Data 0+
19	TMDS Data 0/5 shield
20	
21	
22	TMDS clock shield
23	TMDS clock+
24	TMDS clock-



Connecting example: Computers

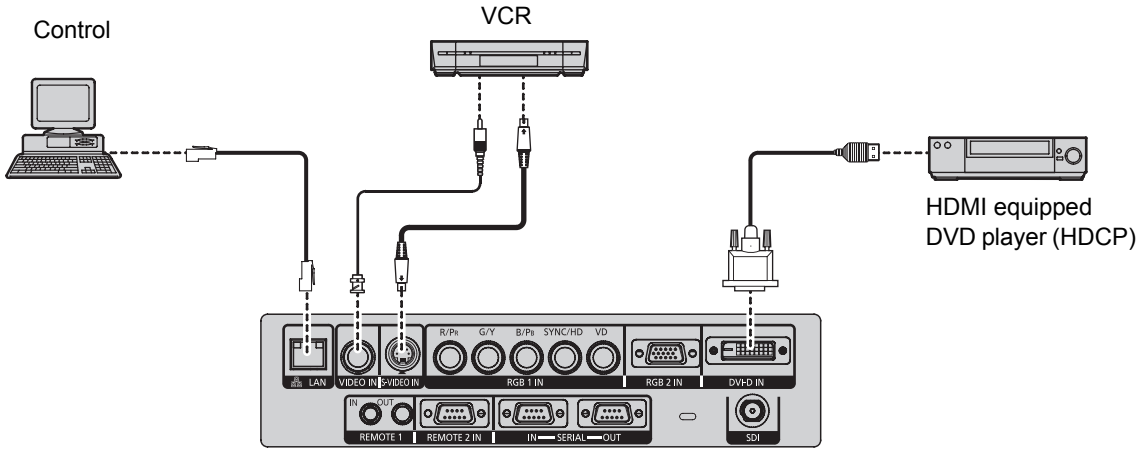


NOTE:

- For the specifications of the RGB signals that can be applied from the computer, see the data sheet of the operating instructions that is provided with the projector.
- If your computer has the resume feature (last memory), the computer may not function properly until the resume capability is disabled.
- When the SYNC ON GREEN signal is input, do not input sync signals to the SYNC/HD and VD terminals.
- When using DVI-D input, EDID settings may be required for the connected device. See “DVI-D IN” on page 26.

Connecting example: AV equipment

Connecting with VIDEO IN/S-VIDEO IN



NOTE:

- When connecting with a VCR, be sure to use the one with a built-in time base corrector (TBC) or use a TBC between the projector and the VCR.
- If non-standard burst signals are connected, the image may be distorted. If this is the case, connect a TBC between the projector and the VCR.
- The DVI-D signals input terminal supports only a single link.
- The HDMI - DVI-D conversion cable is required to connect an HDMI compliant device.
- It is possible to connect the DVI-D input terminal with an HDMI- or DVI-D compliant device, but with some devices the images may not appear or other problems may be encountered in operation.

Menu Navigation

Main menu and Sub-menu

The menu options are structured and categorised. You can navigate through the menu with ▲ ▼ ◄ ► buttons. See “Menu Navigation” on page 12.

- The underlined items are factory default settings.
- Some default settings vary by the selected input signal.
- Sub-menu items vary according to the selected input signal.
- Some settings are adjustable without any signals.

PICTURE

PICTURE MODE page 16
- STANDARD / CINEMA
- NATURAL / DYNAMIC
- GRAPHIC

CONTRAST page 16
(Default: 0)

BRIGHTNESS page 16
(Default: 0)

COLOR page 16
(Default: 0)

TINT page 16
(Default: 0)

COLOR TEMPERATURE page 16
- DEFAULT / USER
- MIDDLE / HIGH

WHITE GAIN page 17
(Default: 10)

SYSTEM DAYLIGHT VIEW page 17
- OFF / 1
- 2 / 3

SHARPNESS page 17
(Default: 6)

NOISE REDUCTION page 17
- 1 / 2
- 3 / OFF

AI page 17
- ON / OFF

SYSTEM SELECTOR page 17
- AUTO / NTSC / NTSC 4.43 / PAL
- PAL-M / PAL-N / SECAM / PAL60
- RGB / YCBCR / VGA60 / 480p
- 480pRGB / YPBPR / 1080/60i / 1035/60i
- 720/60p / 1080/24p / 1080/50i / 1080/30p
- 1080/25p / 1080/24sF / 720/50p / 480i
- 576i

POSITION

SHIFT page 18

ASPECT page 18
- DEFAULT / VID AUTO / S1 AUTO
- VID AUTO(PRI.) / THROUGH
- 16:9 / 4:3 / H-FIT
- V-FIT / HV-FIT

ZOOM page 19
- INTERNAL / FULL

CLOCK PHASE page 19
(Default: 16)

GEOMETRY page 19
(PT-DZ6710 only)
- OFF / KEYSTONE
- CURVED / PC

GEOMETRY:KEYSTONE
- VERTICAL KEYSTONE
- VERTICAL SUB KEYSTONE
- HORIZONTAL KEYSTONE
- HORIZONTAL SUB KEYSTONE
- LINEARITY

GEOMETRY:CURVED
- LENS THROW RATIO
- VERTICAL KEYSTONE
- HORIZONTAL KEYSTONE
- VERTICAL ARC
- HORIZONTAL ARC
- VERTICAL BALANCE
- HORIZONTAL BALANCE

KEYSTONE page 21
(PT-DZ6700, PT-DW6300 and PT-D6000 only)
- VERTICAL KEYSTONE
- VERTICAL SUB KEYSTONE
- LINEARITY

ADVANCED MENU

DIGITAL CINEMA REALITY page 22
- AUTO / OFF
- 25p FIXED / 30p FIXED

BLANKING page 22
- UPPER / LOWER
- LEFT / RIGHT

INPUT RESOLUTION page 22
- TOTAL DOTS / DISPLAY DOTS
- TOTAL LINES / DISPLAY LINES

CLAMP POSITION page 22

EDGE BLENDING * page 23
- OFF / ON

GAMMA
- 2.2 / 1.8 / 2

BRIGHT ADJUST
- BRIGHT INSIDE / BRIGHT OUTSIDE
- OUTSIDE AREA

RASTER POSITION page 24
- VERTICAL / HORIZONTAL

DISPLAY LANGUAGE

ENGLISH	РУССКИЙ
DEUTSCH	한국어
FRANÇAIS	中文
ESPAÑOL	日本語
ITALIANO	

DISPLAY OPTION

COLOR MATCHING * page 25
- OFF
- 3 COLORS
- 7 COLORS
- MEASURED

COLOR CORRECTION page 25
- OFF
- USER

CONTRAST MODE * page 25
- NORMAL
- HIGH

SCREEN SETTING page 25
- SCREEN FORMAT
 - 16:10
 - 16:9
 - 4:3
- SCREEN POSITION

AUTO SIGNAL page 25
- ON
- OFF

AUTO SETUP page 26
- DEFAULT
- WIDE
- USER

DVI-D IN page 26
- DVI EDID
 - EDID3
 - EDID1
 - EDID2(PC)
- DVI SIGNAL LEVEL
 - 0-255:PC
 - 16-235

SDI IN page 26
(PT-DZ6710 only)
- 64-940
- 4-1019

ON-SCREEN DISPLAY page 26
- OSD POSITION
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9
- OSD DESIGN
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
- OSD MEMORY
 - ON
 - OFF
- INPUT GUIDE
 - ON
 - OFF
- WARNING MESSAGE
 - ON
 - OFF

BACK COLOR page 27
- BLACK
- BLUE
- LOGO1
- LOGO2

STARTUP LOGO page 27
- LOGO2
- NONE
- LOGO1

FREEZE page 27

SIDE BY SIDE page 27
(PT-DZ6710/PT-DZ6700/PT-DW6300 only)
- VIDEO
- S-VIDEO
- RGB1
- RGB2
- DVI-D
- SDI
- OFF

PROJECTOR SETUP

PROJECTOR ID page 28
- ALL
- 1 - 64

INSTALLATION page 28
- FRONT/FLOOR
- FRONT/CEILING
- REAR/FLOOR
- REAR/CEILING

HIGH ALTITUDE MODE page 28
- OFF
- ON

COOLING CONDITION page 28
- FLOOR SETTING
- VERTICAL DOWN SETTING
- CEILING SETTING
- VERTICAL UP SETTING

LAMP SELECT page 29
- DUAL
- SINGLE
- LAMP1
- LAMP2

LAMP RELAY page 29
- OFF
- 00:00 - 23:00

LAMP POWER * page 29
- HIGH
- LOW

STANDBY MODE page 29
- NORMAL
- ECO

RS-232C page 29
- (IN) BAUDRATE
- (IN) PARITY
- (OUT) BAUDRATE
- (OUT) PARITY
- RESPONSE(ID ALL)
- GROUP
- RESPONSE(ID GROUP)

REMOTE2 MODE page 29
- DEFAULT
- USER

STATUS page 30

FILTER COUNTER RESET page 30

NO SIGNAL SHUT-OFF page 30
- DISABLE
- 10 MIN.
- 20 MIN.
- 30 MIN.
- 40 MIN.
- 50 MIN.
- 60 MIN.
- 70 MIN.
- 80 MIN.
- 90 MIN.

FUNCTION BUTTON page 30
- DISABLE
- SUB MEMORY LIST
- SYSTEM SELECTOR
- SYSTEM DAYLIGHT VIEW
- FREEZE
- SIDE BY SIDE

DAY AND TIME page 31
- TIME ZONE
- ADJUST CLOCK

SAVE ALL USER DATA page 31

LOAD ALL USER DATA page 31

INITIALIZE page 31

SERVICE PASSWORD page 31

TEST PATTERN

TEST PATTERN page 32

SIGNAL LIST page 33

- REGISTERED SIGNAL STATUS
- SUB MEMORY LIST

* Not available for PT-D5000.

SECURITY

- **SECURITY PASSWORD** page 35
 - OFF
 - ON
- **SECURITY PASSWORD CHANGE** page 35
- **DISPLAY SETTING** page 35
 - OFF
 - TEXT
 - LOGO1
 - LOGO2
- **TEXT CHANGE** page 35
- **MENU LOCK** page 36
 - OFF
 - ON
- **MENU LOCK PASSWORD** page 36
- **CONTROL DEVICE SETUP** page 36
 - **CONTROL PANEL**
 - ENABLE
 - DISABLE
 - **REMOTE CONTROLLER**
 - ENABLE
 - DISABLE

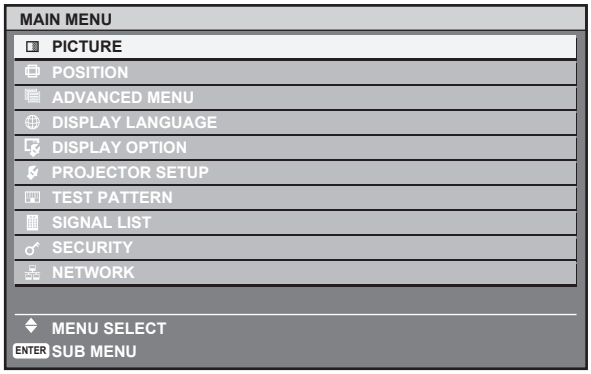
NETWORK

- **NETWORK SETUP** page 37
 - HOST NAME
 - DHCP
 - IP ADDRESS
 - SUBNET MASK
 - DEFAULT GATEWAY
 - STORE
- **NETWORK CONTROL** page 37
 - WEB CONTROL
 - PJLink CONTROL
 - COMMAND CONTROL
 - COMMAND PORT
 - STORE
- **NETWORK STATUS** page 37
 - DHCP
 - IP ADDRESS
 - SUBNET MASK
 - DEFAULT GATEWAY
 - DNS1
 - DNS2
 - MAC ADDRESS

Navigating through the menu

Displaying the main menu

Press the **MENU** button to display the main menu.



Adjusting with the bar scale items

The triangle mark under the bar indicates factory default setting and the square indicates the current setting.

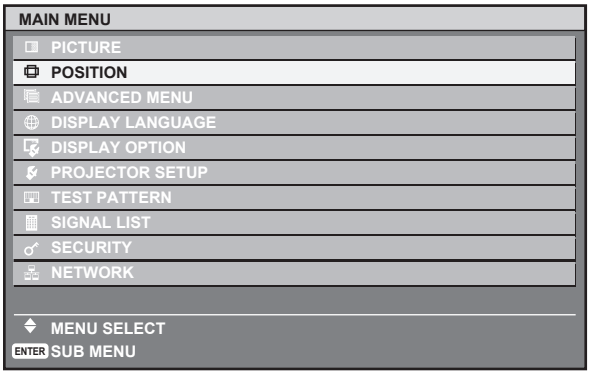


Returning to the previous menu

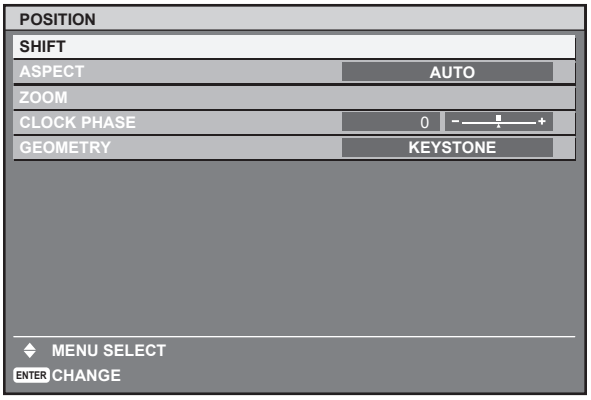
Press the **MENU** button to return to the previous menu. Press repeatedly to escape from the menu mode and return to the projection.

Operating procedure

1. Press ▲ ▼ to scroll to the required main menu item and press the **ENTER** button to select.
 - The selected item is highlighted in orange and the sub-menu is displayed.
 - See “Main menu and Sub-menu” on page 12.



2. Press ▲ ▼ to scroll to the required sub-menu item and press ◄ ► or the **ENTER** button to adjust.
 - The selected item is called up and the other menu items disappear from the screen. Called up item will be disappear after 5 seconds and return to the menu mode.
 - If there is a lower level, the next level will be displayed.
 - You can reset some setting values to factory default by pressing the **DEFAULT** button.



3. Press ◄ ► to adjust or set the selected item.
 - For items using a bar scale, the current settings are displayed on the left of the bar scale.
 - You can cycle through the options of an item by pressing ◄ ►.



4. Press the **MENU** button to return to the previous menu.

NOTE:
- See “INITIALIZE” on page 31 to reset the settings.

PICTURE menu

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

PICTURE MODE

Depending on the projection environment, you can use these preset parameter settings to optimise image projection. Press ◄ ► to cycle through the options.

STANDARD	Setting for a general image
CINEMA	Setting for a cinema type movie
NATURAL	Reproduces the original colour of the image
DYNAMIC	Bright and sharp setting
GRAPHIC	Setting for image from computers

NOTE:
- Factory default is **STANDARD** for moving images and **GRAPHIC** for RGB system.

CONTRAST

You can adjust the contrast of the projected image. Adjust the **BRIGHTNESS** in advance if necessary.
Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	Lower
►	Higher
Setting range: -31 to +31	

BRIGHTNESS

You can adjust the brightness of the projected image. Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	Darker
►	Brighter
Setting range: -31 to +31	

COLOR

You can adjust the colour saturation of the projected image. Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	Lighter
►	Darker
Setting range: -31 to +31	

TINT

You can adjust the skin tone in the projected image. Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	More reddish
►	More greenish
Setting range: -31 to +31	

COLOR TEMPERATURE

You can adjust the white balance of the projected image. Select the required option and press ◄, ► or the **ENTER** button to call up the bar scale.

DEFAULT	Balanced white
USER	More detailed adjustment
MIDDLE	More reddish
HIGH	More bluish

● Adjusting more detailed white balance

You can adjust white balance of RGB individually in high and low level.

1. Select **USER** and press the **ENTER** button.
2. Select **WHITE BALANCE HIGH** or **WHITE BALANCE LOW**, and call up the scale bars by pressing ◄, ► or the **ENTER** button.
3. Press ◄ ► to adjust the value of each colour.
 Setting range
 WHITE BALANCE HIGH: 0 to 255 (Default: 255)
 WHITE BALANCE LOW: 0 to 63 (Default: 32)

NOTE:
- With excessive unbalanced adjustment, such as extremely high with extremely low setting, all the colours may be displayed abnormally. Press the **DEFAULT** button to reset the selected item to the default setting.
- Adjust **COLOR TEMPERATURE** with signal image. Internal test pattern is not for **COLOR TEMPERATURE** adjustment.

WHITE GAIN

You can adjust the brightness of white area of the image. Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	More natural white
►	Whiter
Setting range: 0 to +10	

SYSTEM DAYLIGHT VIEW

You can keep the projected image bright and vivid even in well-lit rooms where the ambient light sources cannot be controlled, such as when a door opens or when window coverings fail to block out sunlight. Press ◄ ► to cycle through the options.

OFF	Deactive
1	Low
2	Middle
3	High

SHARPNESS

You can adjust the sharpness of the projected image. Call up the bar scale by pressing ◄, ► or the **ENTER** button, and press ◄ ► to adjust the value.

◄	Less sharp
►	More sharp
Setting range: 0 to +15	

NOISE REDUCTION

You can select the automatic noise reduction system strength. Press ◄ ► to cycle through the options.

OFF	Deactive
1	Low
2	Middle
3	High

AI

You can switch on/off the auto iris control system. Press ◄ ► to switch between **ON** or **OFF**.

ON	Active
OFF	Deactive

SYSTEM SELECTOR

When the input signal is changed, the projector detects the colour system and selects the matched setting automatically, or you can select manually. Press ◄ ► to cycle through the options.

- **VIDEO**/**S-VIDEO** terminal

AUTO ►NTSC ►NTSC 4.43 ►PAL ►PAL-M ►PAL-N ►SECAM ►PAL60

- **AUTO** is usually recommended.
- Selecting options of AUTO are **NTSC**/**NTSC 4.43**/**PAL**/**PAL-M**/**PAL-N**/**SECAM**/**PAL60**.

- **RGB 1 IN**/**RGB 2 IN** terminal

● 480i/576i/576p signals	**RGB ►YCBCR**
● VGA60/480p signals:	**VGA60 ►480p ►480pRGB**
● Other signals	**RGB ►YPBPR**

- See "List of compatible signals" in the Operating Instructions that provided with the projector.

- **SDI** terminal (PT-DZ6710 only)

AUTO ► 1080/60i ► 1035/60i ► 720/60p ► 1080/24p ► 1080/50i ► 1080/30p ► 1080/25p ► 1080/24sF ► 720/50p ► 480i ► 576i

POSITION menu

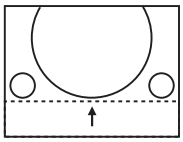
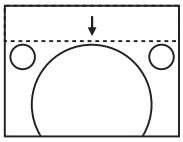
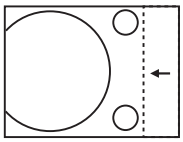
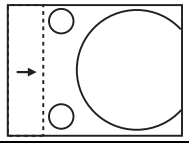
Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

SHIFT

You can move the projected image for fine adjustment. Press the **ENTER**, and ◄ ► to move horizontally and ▲ ▼ vertically.

Vertical adjustment	
▲ Moves up the image.	
▼ Moves down the image.	
Horizontal adjustment	
◄ Moves left the image.	
► Moves right the image.	

ASPECT

You can change the aspect ratio according to the selected **SCREEN FORMAT** setting of **SCREEN SETTING** in **DISPLAY OPTION** menu. Select the required option in **SCREEN FORMAT** in advance, and then change the aspect ratio. Press ◄ ► to cycle through the options.

Aspect ratio options

DEFAULT

The image will be displayed in the aspect ratio of input signal.

VID AUTO

Signals which contain video ID will be detected, and automatically switch the aspect ratio between 4:3 and 16:9. Effective with VIDEO and S-VIDEO (NTSC) signals.

S1 AUTO

Detects signals which contain S1 signal in input signal, and automatically switch the aspect ratio between 4:3 and 16:9. Effective with S-VIDEO (NTSC) signals.

VID AUTO(PRI.)

Detects signals which contain video ID or S1 signal in input signal, and automatically switch the aspect ratio between 4:3 and 16:9. Detects video ID on a priority basis. Effective with S-VIDEO and NTSC signals.

THROUGH

The image will be displayed with the resolution of input signal.

16:9

When a 16:10, 16:9, 15:9 or 15:10 signal is detected, the image will be projected without any change, and other signals will be adjusted to 16:9.

4:3

When a 4:3 or 5:4 signal is detected, the image will be projected without any change, and other signals will be adjusted to 4:3 with preserving original ratio.

H-FIT

The 4:3/5:4 image will be stretched to the horizontal limit of the **SCREEN FORMAT** setting size with preserving original ratio and the vertical edge will be cropped.

V-FIT

The 16:9 (16:10)/15:9 image will be stretched to the vertical limit of the **SCREEN FORMAT** setting size with preserving original ratio and the horizontal edge will be cropped.

HV-FIT

The image will be stretched to the vertical and horizontal limit of the **SCREEN FORMAT** setting size without preserving original ratio and the vertical and horizontal edge will not be cropped.

Menu items displaying pattern depends on signals

● Signals from **RGB 1 IN**/**RGB 2 IN**/**DVI-D IN** and **SDI** (PT-DZ6710 only)
DEFAULT ► THROUGH ► 16:9 ► 4:3 ► H-FIT ► V-FIT ► HV-FIT ► DEFAULT
● Signals from **S-VIDEO IN**
VID AUTO ► S1 AUTO ► VID AUTO(PRI.) ► THROUGH ► 16:9 ► 4:3 ► H-FIT ► V-FIT ► HV-FIT ► VID AUTO
● Signals from other terminals
VID AUTO ► THROUGH ► 16:9 ► 4:3 ► H-FIT ► V-FIT ► HV-FIT ► VID AUTO

NOTE:

- If you project an image with an unmatched aspect ratio, the image may distort or some portions may be cropped. Select an aspect ratio which preserves the intention of the image creator.
- The order of **ASPECT** types is defined not only by the input method but also by the input signals.
- If you project a copyrighted image enlarged or distorted by using **ASPECT** function in commercial use in a public place, such as a restaurant or hotel, you might infringe on the copyright of the creator which is protected by copyright law.
- Selectable aspect ratio options vary according to input signals.

ZOOM

You can control the digital zoom scale vertically and horizontally, and digital zoom area. See “SCREEN SETTING” on page 25.
Zooming range: 50% to 999%

When ASPECT setting is DEFAULT

You can change the zoom area in the setting of **SCREEN FORMAT** in **SCREEN SETTING**.

INTERNAL	Zoom area is the factory default setting of **SCREEN FORMAT** in **SCREEN SETTING**.
FULL	Zoom area is the setting of **SCREEN FORMAT** in **SCREEN SETTING**.

Press ◄ ► to change the zoom scale of **VERTICAL** and **HORIZONTAL**.

When ASPECT setting is THROUGH

Digital zoom is not available.

When ASPECT setting is others

Zoom area is the setting of **SCREEN FORMAT** in **SCREEN SETTING**.
Press ◄ ► to change the zoom scale of **VERTICAL** and **HORIZONTAL**.

CLOCK PHASE

If you have interference patterns of the projected image, which is sometimes referred to as moire or noise, you can fine adjust the timing of the clock. (Signals from **RGB 1 IN**/**RGB 2 IN** only)

NOTE:

- With PT-DW6300 and PT-D6000, if the projecting signal’s dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.

GEOMETRY

(PT-DZ6710 only)
You can project on to specially shaped screens, such as distortional and cylindrical shaped screens, using unique image processing system. Press ◄ ► to cycle through the options.

OFF	Deactive
KEYSTONE	Adjusts projected image when distorted to a trapezoid.
CURVED	Adjusts projected image when distorted to a curved surface.
PC	For performing geometry correction from a connected computer.

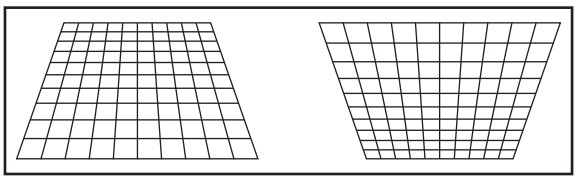
NOTE:

- **GEOMETRY** adjustment should be carried out by a person who is familiar with the projector or by a service person because a high level of skill is required to make successful adjustment.

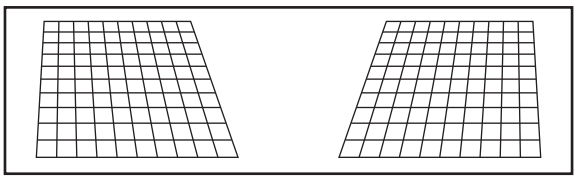
GEOMETRY:KEYSTONE

Select **KEYSTONE** and press the **ENTER** button to display the options.

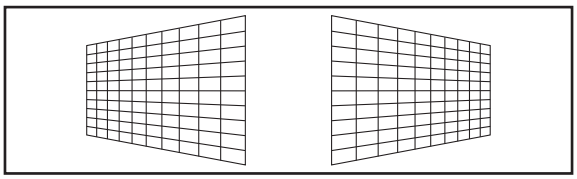
VERTICAL KEYSTONE



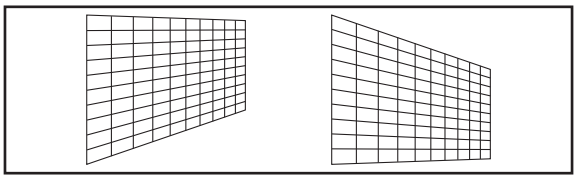
VERTICAL SUB KEYSTONE



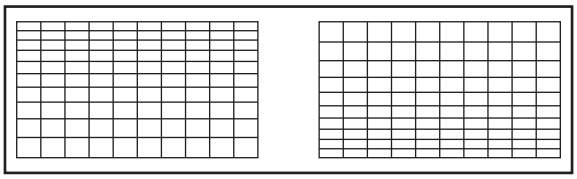
HORIZONTAL KEYSTONE



HORIZONTAL SUB KEYSTONE



LINEARITY



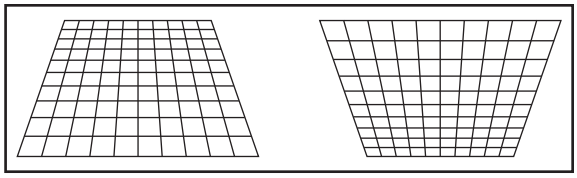
GEOMETRY:CURVED

Select **CURVED** and press the **ENTER** button to display the options.

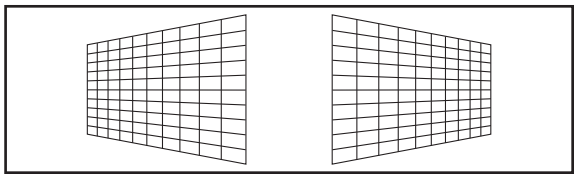
LENS THROW RATIO

Press ◄ ► to adjust throw ratio of the attached lens.

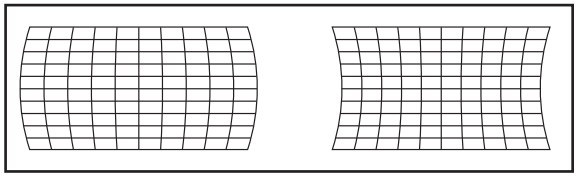
VERTICAL KEYSTONE



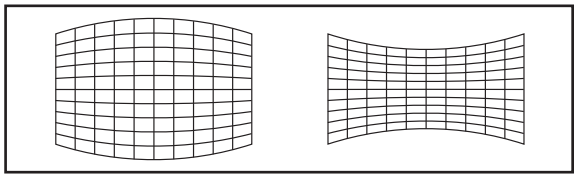
HORIZONTAL KEYSTONE



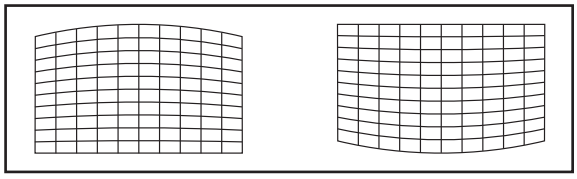
VERTICAL ARC



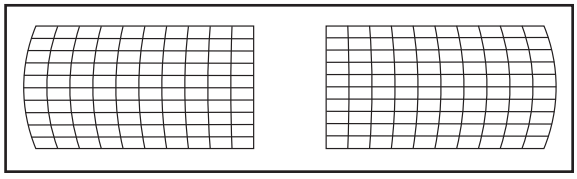
HORIZONTAL ARC



VERTICAL BALANCE



HORIZONTAL BALANCE



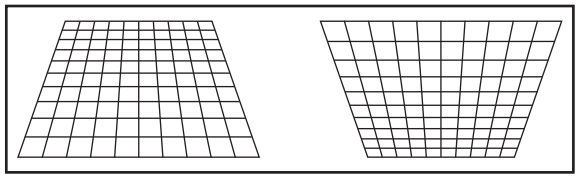
NOTE:

- When **GEOMETRY** setting is set, displayed menu or startup logo might be projected outside of the actual image area.
- When **GEOMETRY** is selected, **EDGE BLENDING** adjustment may be ineffective.

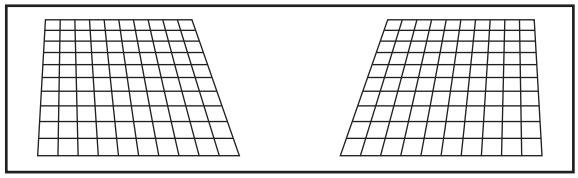
KEYSTONE

(PT-DZ6700/PT-DW6300/PT-D6000/PT-D5000 only)
If the projector is aligned non-perpendicularly to the screen, or if the projection screen has an angled surface, you can correct keystone.

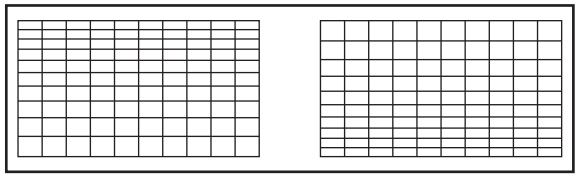
VERTICAL KEYSTONE



VERTICAL SUB KEYSTONE



LINEARITY



NOTE:

- When **KEYSTONE** setting is set, displayed menu or startup logo might be projected outside of the actual image area.
- For a better quality image, installing the projector with a minimum of distortion is recommended.
- Some distortion may be retained for lens shift adjustment.
- The result of the keystone correction will affect the aspect ratio and the size of the image.

ADVANCED MENU

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

DIGITAL CINEMA REALITY

You can improve the vertical resolution for PAL (or SECAM) 576i, NTSC 480i, 1080/50i or 1080/60i signals. Press ◄ ► to cycle through the options.

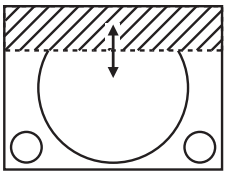
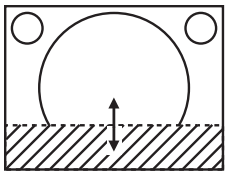
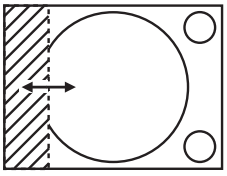
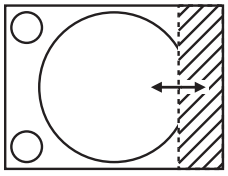
AUTO	Detects PAL (or SECAM) 576i, 1080/50i, NTSC 480i and 1080/60i input signals and change the setting properly.
OFF	Deactive
25p FIXED	Detects only PAL (or SECAM) 576i and 1080/50i signals, and adjust the vertical resolution of the image to 2:2 pulldown.
30p FIXED	Detects only NTSC 480i and 1080/60i signals, and adjust the vertical resolution of the image to 2:3 pulldown.

NOTE:

- **25p FIXED** or **30p FIXED** setting with signals that is not 2:2 pulldown may result low quality.

BLANKING

You can perform fine adjustments for blanking if noise appears at the ends of the screen or the image protrudes out of the screen during image projection using a VCR and so on. Press ▲ ▼ to select the edge to adjust, and ◄ ► to move the inner edge of the blank.

● UPPER	● LOWER
	
● LEFT	**● RIGHT**
	

◄: Moves the inner edge of the blank area to outside.
►: Moves the inner edge of the blank area to inside.

● Setting range

Models	Vertical	Horizontal
PT-DZ6710/PT-DZ6700	0 - 599	0 - 959
PT-DW6300	0 - 399	0 - 639
PT-D6000/PT-D5000	0 - 383	0 - 511

INPUT RESOLUTION

Input resolution adjustment achieves the best image when the screen flickers or halo is observed around the contour, vertical stripes or stuck pixels appear on the screen. Press ▲ ▼ to select the required option to change, and ◄ ► to change the value. The initially displayed values vary according to the selected input signal.

- **TOTAL DOTS**
- **DISPLAY DOTS**
- **TOTAL LINES**
- **DISPLAY LINES**

NOTE:

- The vertical stripes will not appear on the all white signal image.
- The picture may be distorted during the adjusting operation, but this is not a fault.
- The input resolution can be adjusted only when RGB signal input is applied with RGB1 and RGB2 IN.
- With PT-DW6300/PT-D6000/PT-D5000, automatic adjustment is not available if signals having a dot clock frequency of more than 150 MHz are supplied.

CLAMP POSITION

When black part of the image is losing its colour or becomes green, you can adjust to the best colour. Press ◄ ► to change the value.
Setting range: 0 to 255

NOTE:

- Available with signals from **RGB 1 IN**/**RGB 2 IN** only.

EDGE BLENDING

(Not available for PT-D5000)

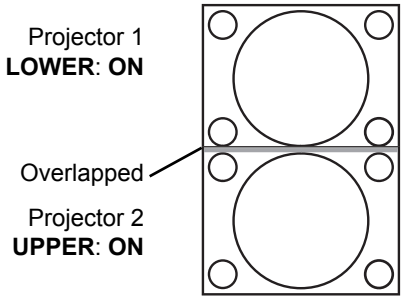
The built-in edge blending feature allows multiple projector images to be seamlessly overlapped by adding a brightness ramp. Press ▲ ▼ to select the required option.

OFF	Deactive
ON	Adds a brightness ramp to the overlapped area and adjustable the overlapping position manually.

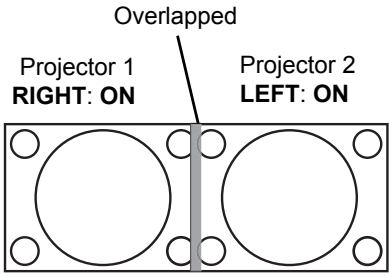
Adjusting EDGE BLENDING

1. Select **ON** and press the **ENTER** button to display the detailed options.
2. Switch between **ON**/**OFF** of the required connecting edge.
3. Press ◄ ► to adjust the value of **START** and **WIDTH**.
 - **WIDTH** of the both projectors must be the same value.

Vertical connecting



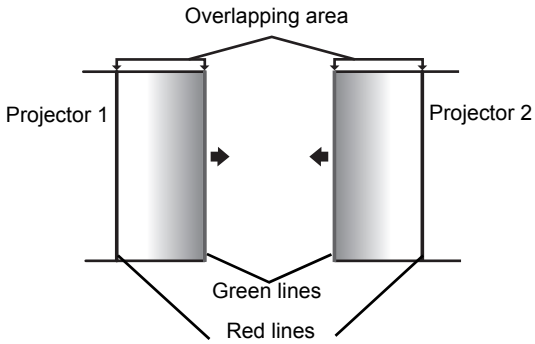
Horizontal connecting



Adjusting with colour markers

You can adjust with colour markers, which indicate the overlapping area.

1. Press ▼ several times until **MARKER** is displayed.
2. Select **MARKER** and press ◄ ► to switch between **ON**/**OFF**.
 - Green and red lines will be displayed.
 - Green line indicates **START** point, and red line indicates **WIDTH** from **START** point.
 - Adjust **START** and **WIDTH** for superimposing the green line to the red.



Selecting gamma level

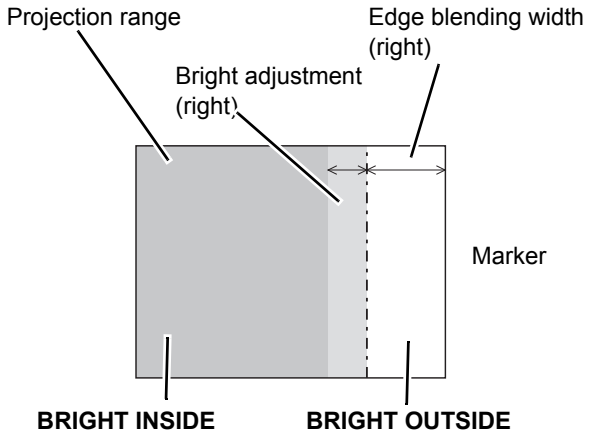
You can adjust gamma level of the lapping area for fine adjustment.

1. Select **GAMMA** and press the **ENTER** button.
2. Press ◄ ► to cycle through the options.
 - Options are 2.2, 1.8 and 2.0.
3. Press the **ENTER** button to apply the setting.

Adjusting brightness around borderline of the image area

You can adjust brightness around borderline of the image area to minimise the difference between the overlapping area and the image. Select **BRIGHT ADJUST** and press the **ENTER** button. Press ▲ ▼ to select a colour, and ◄ ► to change the value.

BRIGHT INSIDE	● **INTERLOCKED**: **ON** Adjust **WHITE** only. ● **INTERLOCKED**: **OFF** Adjust **RED**, **GREEN** and **BLUE** individually. Setting range: 0 to +255
BRIGHT OUTSIDE	● **INTERLOCKED**: **ON** Adjust **WHITE** only. ● **INTERLOCKED**: **OFF** Adjust **RED**, **GREEN** and **BLUE** individually. Setting range: 0 to +255
OUTSIDE AREA	If, after the **BRIGHT INSIDE** adjustment, only the vicinity of the borders of the areas where the pictures overlap and where the pictures do not overlap becomes bright, proceed to adjust the width of connecting side.



NOTE:

- Alternatively, if only the vicinity of the borders has brightened as a result of the width adjustments, proceed with the **BRIGHT OUTSIDE** adjustment.
- When a rear screen or screen with a high gain is used, the joints may appear to be discontinuous depending on the viewing position.

RASTER POSITION

When there is gap between the image area and the projecting area, you can move the image inside of the projecting area.

VERTICAL	Press ▲ ▼ to move the image up or down.
HORIZONTAL	Press ◄ ► to move the image to the left or right.

DISPLAY OPTION menu

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

COLOR MATCHING

(Not available for PT-D5000)

When multiple projectors are used simultaneously, you can adjust the difference of the colours. Press ◄ ► to cycle through the options.

OFF	Deactive.
3 COLORS	Adjusting RGB gain of **RED**, **GREEN**, **BLUE** and **WHITE**. Press ◄ ► to change the value and switch **ON**/**OFF** the **AUTO TEST PATTERN**. Setting range: 0 to +2048 (Setting value depends on your selected colours.)
7 COLORS	Adjusting RGB gain of **RED**, **GREEN**, **BLUE**, **CYAN**, **MAGENTA**, **YELLOW** and **WHITE**. Press ◄ ► to change the value and switch **ON**/**OFF** the **AUTO TEST PATTERN**. Setting range: 0 to +2048 (Setting value depends on your selected colours.)
MEASURED	Adjusting colours based on measured values using colorimeter. Input measured result in **MEASURED DATA**, and adjust in **TARGET DATA**. Press ◄ ► to change the value and switch **ON**/**OFF** the **AUTO TEST PATTERN**. ● **PICTURE MODE** in **PICTURE** menu need to be set to **DYNAMIC** for using colorimeter.

NOTE:

- If the **TARGET DATA** is outside the colour range of the projector, the colours will not be projected correctly.
- When each colour option is selected while **AUTO TEST PATTERN** is activated, its one colour pattern will be displayed.
- Adjusting red gain of red colour changes its luminance, and likewise blue gain of blue and green gain of green.
- **COLOR MATCHING** adjustment should be carried out by a person who is familiar with the projector or by a service person because a high level of skill is required to make successful adjustment.
- Press the **DEFAULT** button to restore the factory default settings.
- **AI**, **COLOR CORRECTION** and **COLOR TEMPERATURE** are not available with **COLOR MATCHING**.

COLOR CORRECTION

You can adjust 6 colours and register the result for each of 4 types of signals, **VIDEO**, **S-VIDEO**, **RGB** and **YPBPR**/**YCBCR**.

OFF	Deactive
USER	Adjust 6 colours, **RED**, **GREEN**, **BLUE**, **CYAN**, **MAGENTA** and **YELLOW**.

CONTRAST MODE

(Not available for PT-D5000)

You can switch the contrast mode for operating environment.

NORMAL	Maximum brightness
HIGH	Maximum contrast

SCREEN SETTING

SCREEN FORMAT

Select the required screen format by pressing ◄ ►. The **SCREEN FORMAT** setting will affect on the **ASPECT** setting. See “ASPECT” on page 18.

PT-DZ6710/PT-DZ6700	**16:10**[*1] **► 16:9 ► 4:3**
PT-DW6300	**16:10**[*1] **► 16:9**
PT-D6000/PT-D5000	**4:3**[*1] **► 16:9**

*1. **SCREEN POSITION** is not available.

SCREEN POSITION

You can change the displaying position of the projecting area. Press ◄ ► to adjust the value.

PT-DZ6710/PT-DZ6700	Setting range:	
	16:10	Not available.
	16:9	-60 to +60
	4:3	-160 to +160
PT-DW6300	Setting range:	
	16:10	Not available.
	16:9	-40 to +40
PT-D6000/PT-D5000	Setting range:	
	4:3	Not available.
	16:9	-96 to +96

AUTO SIGNAL

You can turn **ON**/**OFF** automatically detecting system of the **AUTO SETUP** feature.

OFF	Only when the **AUTO SETUP** button is pressed, the projected image position will be adjusted.
ON	When the projector detects a **COMPUTER** or **DVI** signal, adjust the projected image position automatically.

AUTO SETUP

You can change the **AUTO SETUP** feature for specific signals. Press ◄ ► to cycle through the options and press the **ENTER** button to perform the **AUTO SETUP**.

DEFAULT	For 4:3 or 5:4 signals Applicable resolution: 640 x 400, 640 x480, 800 x 600, 832 x 624, 960 x 720, 1 024 x 768, 1 152 x 864, 1 152 x 870, 1 280 x 960, 1 280 x 1 024, 1 600 x 1 200, 1 400 x 1 050
WIDE	For wide signals Applicable resolution: 720 x 400, 848 x 480, 1 280 x 720, 1 024 x 600, 1 120 x 750, 1 440 x 900, 1 680 x 1 050
USER	For specific resolution signals Select the required **MODE** and change the **DISPLAY DOTS** value by pressing ◄ ►.

DVI-D IN

NOTE:

- The **DVI-D IN** setting for the best quality depends on the output equipment. Refer the instructions of the connected equipment.
- **DVI** signal is very sensitive, and malfunction may occur or other problems could be encountered with some **DVI** equipment.

DVI EDID

You can switch the EDID setting and signal level for variable **DVI** signals.

EDID3	Switch between fine settings for a moving image and for a still image.
EDID1	Fine setting for mainly a moving image, such as signals from a DVD player.
EDID2(PC)	Fine setting for mainly a still image, such as computer.

DVI SIGNAL LEVEL

0-255:PC	(PC scale) For connecting to a computer via **DVI-D IN** terminal
16-235	(TV scale) For connecting to AV equipment via **DVI-D IN** terminal, such as a DVI - HDMI conversion cable connection

SDI IN

(PT-DZ6710 only)
You can select signal amplitude type.

64-940	Normal setting
4-1019	For when grey colour is too close to black

NOTE:

- Available with **YPBPR** or **RGB** of HD-SDI signal.
- Usually **64-940** setting is recommended.

ON-SCREEN DISPLAY

OSD POSITION

You can change the displaying position of the main menu. Press ◄ ► to cycle through the options.

1 Upper left	**4** Upper centre	**7** Upper right
2 Left	**5** Centre	**8** Right
3 Lower left	**6** Lower centre	**9** Lower right

OSD DESIGN

You can change the background colour of the menu. Press ◄ ► to select the required option.

1	Yellow	**4**	Green
2	Blue	**5**	Pink
3	White	**6**	Brown

OSD MEMORY

The current menu cursor position will be retained temporarily unless the projector switched off.

ON	Memorise the menu cursor position.
OFF	Reset the cursor position.

INPUT GUIDE

The name of current selected input terminal will be displayed where the position that is selected in **OSD POSITION**.

ON	Displays the current selected input terminal.
OFF	Deactive

WARNING MESSAGE

You can prevent the display of waning messages.

ON	All of the warning messages will be displayed.
OFF	None of the warning messages will be displayed.

NOTE:

- When the **WARNING MESSAGE** is set to **OFF**, use the projector with utmost care due to none of the warning messages will be displayed.

BACK COLOR

You can choose a blank screen colour for when the projector is idle. Press ◄ ► to select the required option.

BLACK	Displays black pattern.
BLUE	Displays solid blue.
LOGO1	Displays user defined image.
LOGO2	Displays PANASONIC logo.

NOTE:

- Special software is required to define the **LOGO1** image. Contact to an Authorised Service Centre.

STARTUP LOGO

You can switch the logo on/off that is displayed when starting up the projector. Press ◄ ► to select the required option. **STARTUP LOGO** will be displayed for 30 seconds.

LOGO2	Displays PANASONIC logo.
NONE	Deactive
LOGO1	Displays user defined image.

NOTE:

- Special software is required to define the **LOGO1** image. Contact to an Authorised Service Centre.

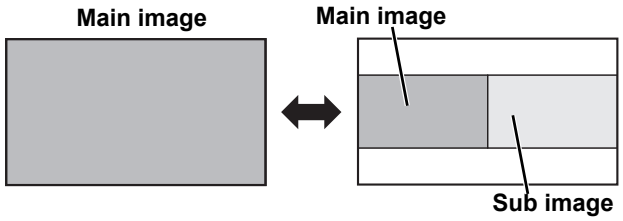
FREEZE

Press the **ENTER** button to capture the image, and you can see it as a still picture while the AV equipment are continuing. Press the **ENTER** button to escape and return to the continuing image.

SIDE BY SIDE

(PT-DZ6710/PT-DZ6700/PT-DW6300 only)
You can project the image and another source of image at the same time in double window style.

1. Press the **ENTER** button.
 - Displays the main image on the left, sub image on the right.
2. Press the **MENU** button.
 - Displays the sub menu with current displayed signal information.
3. ▲ ▼ to select the sub image signal and press the **ENTER** button.
 - Select **OFF** to escape from the **SIDE BY SIDE** mode. To enter the **SIDE BY SIDE** mode again, select **SIDE BY SIDE** of the menu.



NOTE:

- **FREEZE** control is available with the first image only.
- While **SIDE BY SIDE** is activated, **ZOOM** and **AUTO SETUP** are not available.
- While **SIDE BY SIDE** is activated, the main menu will not be displayed.
- The second image will apply to the value of the **PICTURE** settings of the first image except **CONTRAST** and **BRIGHTNESS**.
- **COMPUTER** and **NETWORK** signals will not keep the adjusted aspect ratio.
- Some combination of the signals are not available. See “SIDE BY SIDE function signal combination table” on page 48.

PROJECTOR SETUP menu

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

PROJECTOR ID

The projector has an ID number setting function that helps the user to control multiple projectors either simultaneously or separately with a single remote control. Press ◄ ► to cycle through the options.

ALL	Available to control from any ID numbered remote control or computer.
1 - 64	Available to control from the same ID numbered remote control.

NOTE:

- See “Remote control ID” in the operating instructions booklet that is provided with the projector.

INSTALLATION

When installing the projector, select the projection method according to the projector position. Press ◄ ► to cycle through the options.

FRONT/FLOOR	Setting on a desk/floor and projecting from front
FRONT/CEILING	Mounting on the ceiling and projecting from front
REAR/FLOOR	Setting on a desk/floor and projecting from rear
REAR/CEILING	Mounting on the ceiling and projecting from rear

NOTE:

- See “Projection method” in the operating instructions booklet that is provided with the projector.

HIGH ALTITUDE MODE

If you use the projector at high elevation, the **HIGH ALTITUDE MODE** setting needs to be **ON** to set the fan speed high. Press ◄ ► to select the required option.

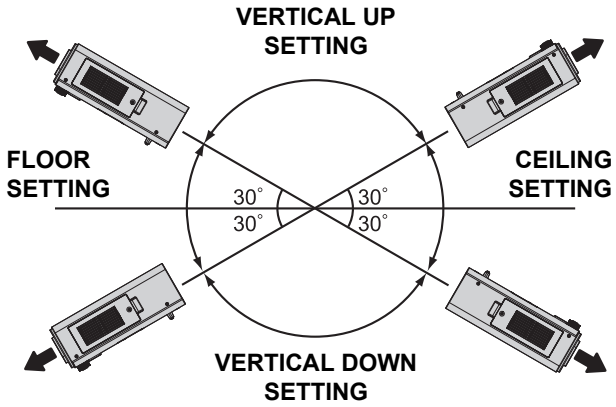
OFF	The fan speed is low.
ON	The fan speed is high.

NOTE:

- At 1 400 - 2 700 m (4 593 - 8 858 ft) sea level, the setting must be **ON**.
- The loudness of fan noise depends on the **HIGH ALTITUDE MODE** setting.

COOLING CONDITION

You can control the fan speed for projecting angle. Press ◄ ► to cycle through the options.



NOTE:

- When the projector is angled, **COOLING CONDITION** setting must be set correctly. Failure to observe this may result in malfunctions, or the life of the lamp or the other components may be shortened.

LAMP SELECT

You can select a lamp lighting pattern for using environment. Press ◄ ► to cycle through options, and the **ENTER** button.

DUAL	All lamps will light.
SINGLE	Selects a lamp with shorter duration of use.
LAMP1	Selects the Lamp unit 1.
LAMP2	Selects the Lamp unit 2.

NOTE:

- If, in the **SINGLE**, **LAMP1** or **LAMP2** mode, one lamp remains off or the currently active lamp exceeds 2 000*1 hours of cumulative operating time (when **HIGH** is selected as the **LAMP POWER** setting*2), the other lamp will light. If, in the **DUAL** mode, one lamp remains off or the currently active lamp exceeds 2 000*1 hours of cumulative operating time (when **HIGH** is selected as the **LAMP POWER** setting*2), the other lamp alone will light. However, if both lamps remain off or the 2 000*1 hours of cumulative operating time (when **HIGH** is selected as the **LAMP POWER** setting*2) are exceeded, the projector will enter the standby mode.
- The colours of the items indicate the status.
 Green: Current setting
 Yellow: Current setting (when a lamp fails or fails to light)
 Red: Lamp that has failed to light
 White: Any other status.
- If the projector is repeatedly used for short periods of time, the lamps will need to be replaced more frequently.

*1. 3 000 hours for PT-D5000 only.
*2. Not available for PT-D5000.

LAMP RELAY

If using the projector for a continuous period of 24 hours or more, this setting can be used to automatically switch the lamps that are turned on in order to reduce the lamp deterioration that can occur as a result of continuous use.

OFF	Deactive
00:00 - **23:00**	1 hour interval from **00:00** to **23:00**

NOTE:

- Only when **DUAL** or **SINGLE** is selected in **LAMP SELECT**, **LAMP RELAY** is available. If **LAMP1** or **LAMP2** is selected, **LAMP RELAY** function is not available.

LAMP SELECT setting	Repeated operation
SINGLE	**LAMP1** and **LAMP2** light alternately by the set time, and the shorter duration of use lamp will light first.
DUAL	After both lamps light for the set time, only one lamp is turned off for 2 hours, then for only the other lamp for next 2 hours. The longer duration of use lamp will be turned off first.

LAMP POWER

(Not available for PT-D5000)

The luminance of the projection lamp can be changed depending on user's needs or the viewing conditions.

HIGH	Set when high brightness is necessary.
LOW	Set when high brightness is not necessary.

NOTE:

- When set to **LOW**, it is possible to reduce power consumption, reduce operating noise and extend lamp service life.

STANDBY MODE

You can select the electrical consumption while in standby mode.

NOTE:

- With **ECO** setting, **NETWORK** function, **RS-232C** output and some of **RS-232C** commands are not available. When switch on the projector, projection will start about 10 seconds late.

RS-232C

This sets the communication parameters at the serial terminals.

(IN) BAUDRATE	Select **9600**, **19200** or **38400**.
(IN) PARITY	Select **NONE**, **EVEN** or **ODD**.
(OUT) BAUDRATE	Select **9600**, **19200** or **38400**.
(OUT) PARITY	Select **NONE**, **EVEN** or **ODD**.
RESPONSE(ID ALL)	Select **ON** or **OFF**.
GROUP	Select **A** to **Z**.
RESPONSE(ID GROUP)	Select **ON** or **OFF**.

REMOTE2 MODE

You can customise the **REMOTE 2 IN** terminal function.

- **DEFAULT** The pin assignment of the **REMOTE 2 IN** terminal is used as the projector default setting.
- **USER** For changing an optional input module or customising the pin assignments.

PIN1	**GND**
PIN2	**POWER ► NONE**
PIN3 - PIN7	**RGB1 ► RGB2 ► VIDEO ► S-VIDEO ► DVI-D ► BALLAST VERSION ► REWIND ALL FILTER ► NONE**
PIN8	**SHUTTER ► NONE**
PIN9	**ENABLE ► DISABLE**

STATUS

You can see the status of the projector about the following items.

Items	Description
INPUT	Displays the input selection state.
NAME	Displays the input signal name.
SIGNAL FREQUENCY	Displays the frequency of the input signal.
PROJECTOR RUNTIME	Displays the projector runtime.
LAMP1	Displays the lighting time of **LAMP1**.
LAMP2	Displays the lighting time of **LAMP2**.
INTAKE AIR TEMP.	Displays the intake air temperature of the projector.
OPTICS MODULE TEMP.	Displays the temperature inside the projector.
AROUND LAMP TEMP.	Displays the temperature around the lamp of the projector.
REMAINING FILTER	Displays the filter runtime.
QUANTITY	Displays the filter remaining quantity.
PROJECTOR TYPE	Displays type of projector.
SERIAL NUMBER	Displays the serial number of the projector.
MAIN VERSION	Displays the main version of the firmware of the projector unit.
SUB VERSION	Displays the sub version of the firmware of the projector unit.
NETWORK VERSION	Displays the network version of the projector unit.
ON COUNT	
POWER ON TIMES	Displays the number of times the power has been tuned on.
LAMP1 ON	Displays the number of times **LAMP1** has been lit.
LAMP2 ON	Displays the number of times **LAMP2** has been lit.
SHUTTER	Displays the number of times the shutter function has been used.
LAMP1 LOW *	Displays the **LAMP1** lighting time with **LOW** setting in **LAMP POWER**.
HIGH *	Displays the **LAMP1** lighting time with **HIGH** setting in **LAMP POWER**.
LAMP2 LOW *	Displays the **LAMP2** lighting time with **LOW** setting in **LAMP POWER**.
HIGH *	Displays the **LAMP2** lighting time with **HIGH** setting in **LAMP POWER**.
NUMBER OF ENTRY SIGNAL	Displays the number of registered signals.
REMOTE2 STATUS	Displays **REMOTE 2 IN** control status.

* Not available for PT-D5000.

FILTER COUNTER RESET

After you replaced the Auto Cleaning Filter (ACF), **REMAINING FILTER** of **STATUS** need to be reset to "0".

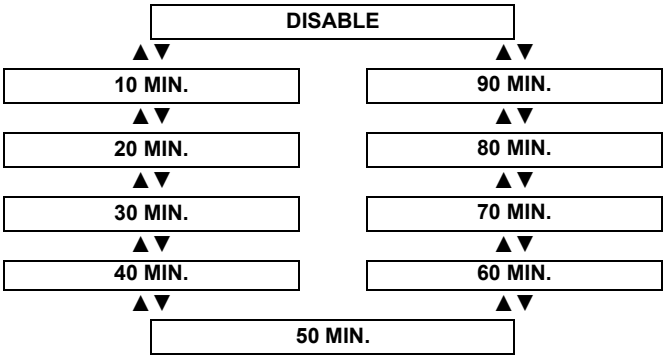
1. Press the **ENTER** button.
2. Select **OK** by pressing ◄, then press the **ENTER** button.
3. The **REMAINING FILTER** of **STATUS** will be reset to "0".
 - Display the **STATUS** and confirm the figure.

NOTE:

- See "Replacing the Auto Cleaning Filter (ACF)" in the operating instructions booklet that is provided with the projector.

NO SIGNAL SHUT-OFF

You can set the timer to switch off the power of the projector after a certain period of time automatically when no signal is detected. Press ◄ ► to select the required period from 10 to 90 minutes at intervals of 10 minutes.



FUNCTION BUTTON

You can assign a certain menu function to the **FUNCTION** button as shortcut. Press ◄ ► to select the required menu option, and the **ENTER** button.

Options	Functions	Refer
DISABLE	Deactivate the **FUNCTION** button.	-
SUB MEMORY LIST	Displays the assigned **SUB MEMORY LIST**.	34
SYSTEM SELECTOR	Switches **SYSTEM SELECTOR** options.	17
SYSTEM DAYLIGHT VIEW	Switches the **SYSTEM DAYLIGHT VIEW** setting.	17
FREEZE	Freezes the image.	27
SIDE BY SIDE	Start the **SIDE BY SIDE** mode.	27

DATE AND TIME

You can set the time zone and correct the time and date of internal clock.

TIME ZONE	Select the current located time zone.
ADJUST CLOCK	Adjust **YEAR**, **MONTH**, **DAY**, **HOUR** and **MINUTE** by pressing ◄ ►, then select **APPLY** and press the **ENTER** button.

SAVE ALL USERS DATA

You can save various setting values as a backup to the internal memory of the projector.

1. Press the **ENTER** button.
 - The **SECURITY PASSWORD** will be asked to perform.
2. Perform the **SECURITY PASSWORD**.
 - The confirmation screen will be displayed.
 - See “SECURITY PASSWORD” on page 35.
3. Press ◄ to select **OK**, then press the **ENTER** button.

NOTE:

- E-mail settings of **NETWORK** that is controlled by web browser, and the image data for **LOGO1** in **BACK COLOR** and **STARTUP LOGO** will not be saved.

LOAD ALL USERS DATA

You can load the saved data in **SAVE ALL USER DATA**.

1. Press the **ENTER** button.
 - The **SECURITY PASSWORD** will be asked to perform.
2. Perform the **SECURITY PASSWORD**.
 - The confirmation screen will be displayed.
 - See “SECURITY PASSWORD” on page 35.
3. Press ◄ to select **OK**, then press the **ENTER** button.
4. The projector returns to the standby mode to reflect the saved data.

INITIALIZE

You can reset the settings to the factory defaults by the selected mode.

1. Select the required mode to initialise.
2. Press the **ENTER** button.
3. Perform the **SECURITY PASSWORD**.
 - The confirmation screen will be displayed.
 - See “SECURITY PASSWORD” on page 35.
4. Press ◄ to select **OK**, then press the **ENTER** button.
 - When initialising by **ALL USER DATA**, switch off the power and restart the projector.

ALL USER DATA	All setting values including registered signals in **SIGNAL LIST**, e-mail settings of **NETWORK**, and registered image data for **LOGO1** in **BACK COLOR** and **STARTUP LOGO** will return to factory settings.
ENTRY SIGNAL	All registered signal settings in **SIGNAL LIST** will return to factory settings.
NETWORK/E-MAIL	All setting values in **NETWORK** including e-mail settings will return to factory settings.
LOGO IMAGE	The registered image data for **LOGO1** in **BACK COLOR** and **STARTUP LOGO** will return to factory settings.

SERVICE PASSWORD

SERVICE PASSWORD is for a service person.

TEST PATTERN

Remote control

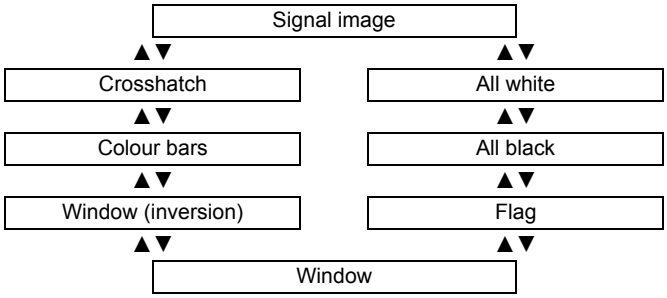


- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

TEST PATTERN

You can use 7 test patterns to adjust the signal image.

1. Display an input signal image.
2. Press the **MENU** button to display the main menu.
3. Select **TEST PATTERN** menu.
4. Press ◄ ► to select the required test pattern.
 - Press the **ON SCREEN** button to clear the screen if necessary.



NOTE:

- **POSITION** menu adjusting is not effective with the test patterns.

SIGNAL LIST

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

SIGNAL LIST and SUB MEMORY LIST

You can register a input signal as a **SIGNAL LIST** data, and several sets of adjusted settings for the signal as **SUB MEMORY LIST** data.

NOTE:

- You can register data up to 96 in total number of the signal data and any corresponding sub memory data.
- The names of the registered data are automatically determined by the input signals and memory numbers.
- If a menu is being displayed, the new signals will be registered at the instant they are input.

Managing the list and the registered data

Registering a signal to the list

When a new format input signal is applied to the projector, press the **MENU** button to register to the **SIGNAL LIST**.

NOTE:

- The memories are numbered over 12 pages (A to L: 8 data items can be registered on each page), and the data is registered in the unused memory with the lowest number. If all the memories are used, the data of the old signals is overwritten in sequence.
- When a new input signal is applied while the menu is displayed, the signal will be registered to the list.

Displaying the signal list and the status

1. Select **SIGNAL LIST** in the main menu.
2. Press the **ENTER** button.
 - Display the **REGISTERED SIGNAL LIST**.
3. Select the required signal data.
4. Press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS**.

NAME	Input signal name
MEMORY NO.	Location address of registered data
INPUT	Connected input terminal
fH	Horizontal frequency
fV	Vertical frequency
SYNC.STATE	Polarity synchronisation

Renaming a registered data

You can rename the automatically determined registered signal data.

1. Display the **REGISTERED SIGNAL LIST** and select the required signal data.
2. Press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS** of the signal.
3. Press the **ENTER** button.
 - Displays the character list.
4. Select the required character by pressing ▲ ▼ ◄ ► and press the **ENTER** button.
 - Repeat until complete the name.
 - You can enter the characters up to 16.
5. Select **OK** and press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS** with **NAME** renamed.
 - Select **CANCEL** and press the **ENTER** button to return to the **REGISTERED SIGNAL STATUS** without any change.

Deleting a registered data

You can delete a registered data from the **REGISTERED SIGNAL LIST**.

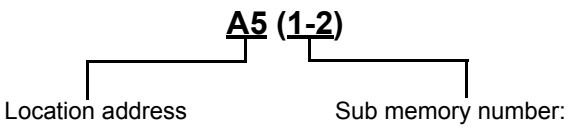
1. Display the **REGISTERED SIGNAL LIST** and select the required signal data.
2. Press the **DEFAULT** button.
 - Displays the **REGISTERED SIGNAL STATUS** of the signal for confirmation to delete.
3. Press the **ENTER** button.
 - Displays **REGISTERED SIGNAL LIST** and confirm the data is deleted.
 - Press the **MENU** button to cancel and return to the **REGISTERED SIGNAL LIST** without any change.

Managing the sub memory list

You can restore the sub memory data when using signals from the same input source. Sub memory data contains the setting information of screen and image adjustments, such as **BRIGHTNESS**, **CONTRAST** or **ASPECT**.

Registering the current settings to the list

1. Press ◄ or ► while the menu is cleared from the screen after adjustment.
 - The signal must be registered before creating a sub memory data of the signal.
 - Displays the list of corresponding sub memory data to the signal.
 - If the creating data is the first sub memory data of the signal, the status of the signal will be displayed to confirm.
2. Select an empty data slot to register and press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS** and change the name if necessary.
 - You can return to the previous step by pressing the **MENU** button.
3. Select **OK** and press the **ENTER** button.
 - Displays sub memory status and return to the projection.
 - **MEMORY NO.** indicates as follows.



NOTE:

- The memories are numbered over 12 pages (A to L: 8 data items can be registered on each page), and the data is registered in the unused memory with the lowest number. If all the memories are used, the data of the old signals is overwritten in sequence.

Displaying the sub memory list and restoring the settings

1. Press ◄ or ► while the menu is cleared from the screen after adjustment.
 - Displays the **SUB MEMORY LIST**.
2. Select the required sub memory data and press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS**.
3. Press the **ENTER** button.
 - Restores the settings in the data.

Deleting a sub memory data

1. Press ◄ or ► while the menu is cleared from the screen after adjustment.
 - Displays the **SUB MEMORY LIST**.
2. Select the required sub memory data and press the **ENTER** button.
 - Displays the **REGISTERED SIGNAL STATUS**.
3. Press the **DEFAULT** button.
 - Displays the **SUB MEMORY LIST** with change.
 - You can return to the previous step by pressing the **MENU** button.

SECURITY menu

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

Entering the SECURITY menu

Every time when you apply to the **SECURITY** menu, you will be asked to perform the password operation. When you apply to the **SECURITY** menu before you change the password to your original, perform to input the following factory default password operation.

- Press ▲ ► ▼ ◄ ▲ ► ▼ ◄ and the **ENTER** button.

After you change the password

When you apply to the **SECURITY** menu after you change the password to your original in the **SECURITY PASSWORD CHANGE** menu, input the original password operation.

SECURITY PASSWORD

You can activate the security system and the password operation will be asked to perform when the projecting mode started. Unless you perform the correct password operation, all of the button controls will be disabled except the **POWER STANDBY** and **SHUTTER** buttons.

OFF	Deactive
ON	Active

NOTE:

- When you activated the security system, make sure to change the password to your original for safety.
- The factory default password is valid until you change the password in **SECURITY PASSWORD CHANGE** menu.

SECURITY PASSWORD CHANGE

You can change the password operation to your original.

1. Press a series of button operation up to 8 as a password by using ▲ ▼ ◄ and ►.
2. Press the **ENTER** button.
3. Press the exact same series of button operation you entered in the **NEW** password box for confirmation.
 - If a series of button operation is incorrect, you will be asked to perform again.
4. Press the **ENTER** button.

NOTE:

- The entered password operations will appear as asterisks in the box.

DISPLAY SETTING

You can set your original text, such as company name or URL information, to display regularly on the projected image while projecting.

OFF	Deactive
TEXT	Displays user defined text in **TEXT CHANGE** on the screen while projecting.
LOGO1	Displays user defined image over the image.
LOGO2	Displays PANASONIC logo over the image.

TEXT CHANGE

You can enter your original text up to 22 characters for **DISPLAY SETTING**.

1. Enter your original text.
 - Use ▲ ▼ ◄ ► to specify the location of the required character.
2. Press the **ENTER** button.
 - The selected character will be displayed in the text box.
3. Repeat until finish your original text.
 - Select < or > and press the **ENTER** button to move the cursor in the text box.
 - Select BS and press the **ENTER** button to erase a character.
4. Select **OK** and press the **ENTER** button.
 - Select **CANCEL** or press the **MENU** button to return to the previous step.

NOTE:

- Special software is required to define the **LOGO1** image. Contact to an Authorised Service Centre.

MENU LOCK

You can lock the **MENU** button function and the password will be asked to display the menu every time.

OFF	Deactivate the **MENU LOCK** system.
ON	Activate the **MENU LOCK** system.

NOTE:

- The factory default password is “AAAA”.
- The factory default password is valid until you change the password in **MENU LOCK PASSWORD** menu.
- When the projector is initialised, the password will be changed to the factory default setting, "AAAA".

MENU LOCK PASSWORD

You can change the password for **MENU LOCK** system to your original.

1. Enter the original password.
 - Use ▲ ▼ ◄ ► to specify the location of the required character.
2. Press the **ENTER** button.
 - The selected character will be displayed in the text box.
3. Repeat until finish your original text.
 - Select < or > and press the **ENTER** button to move the cursor in the text box.
 - Select BS and press the **ENTER** button to erase a character.
4. Select **OK** and press the **ENTER** button.
 - Select **CANCEL** or press the **MENU** button to return to the previous step.

NOTE:

- Change the **MENU LOCK PASSWORD** regularly and make it uneasy to guess.

CONTROL DEVICE SETUP

CONTROL PANEL

You can disable the control panel buttons on the projector body. Press ◄ or ► to switch the option.

ENABLE	Enable the control panel buttons.
DISABLE	Disable the control panel buttons. The confirmation screen will be displayed. Select **OK** by pressing the ◄, and the **ENTER** button.

REMOTE CONTROLLER

You can disable the remote control buttons. Press ◄ or ► to switch the option.

ENABLE	Enable the remote control buttons.
DISABLE	Disable the remote control buttons. The confirmation screen will be displayed. Select **OK** by pressing the ◄, and the **ENTER** button.

NOTE:

- If you disable both of the control panel and remote control buttons, you cannot return to the standby mode. Use this function with utmost care.
- If you press a disabled button, you will be asked to perform the security password operation. The password screen will disappear after 10 seconds without any operation.

NETWORK menu

Remote control



- See “Navigating through the menu” on page 15.
- See “Main menu and Sub-menu” on page 12.

NETWORK SETUP

Make the initial network settings before using the network connection.

1. Select the required item to change.
2. Press the **ENTER** button.
3. Use ▲ ▼ ◄ ► to change the settings.
4. Select **STORE** and press the **ENTER** button.
 - The confirmation screen will be displayed. Select **OK** and press the **ENTER** button.

HOST NAME	Change as needed when using a DHCP server.
DHCP	● **ON**: When using DHCP server, automatically acquire an **IP ADDRESS**. ● **OFF**: **IP ADDRESS** need to be entered manually.
IP ADDRESS	Enter correct **IP ADDRESS** numbers. When **DHCP** is **ON**, automatically filled.
SUBNET MASK	Enter correct **SUBNET MASK** numbers. When **DHCP** is **ON**, unnecessary to fill.
DEFAULT GATEWAY	Enter correct **DEFAULT GATEWAY** numbers. When **DHCP** is **ON**, unnecessary to fill.
STORE	Save the above settings.

NOTE:

- Make sure the DHCP server is ready to use.
- For details of **IP ADDRESS**, **SUBNET MASK** and **DEFAULT GATEWAY**, ask the network administrator.

NETWORK CONTROL

You can switch on/off the projector network controlling method.

1. Select the required item to change.
2. Press the **ENTER** button.
3. Use ◄ ► to change the settings.
4. Select **STORE** and press the **ENTER** button.
 - The confirmation screen will be displayed. Select **OK** and press the **ENTER** button.

WEB CONTROL	For when controlling from a computer with the web browser.
PJLink CONTROL	For when controlling from a computer with the PJLink™ protocol.
COMMAND CONTROL[*1]	For when controlling from a computer via **SERIAL** terminal.
COMMAND PORT	Enter the command port number for **COMMAND CONTROL**.
STORE	Save the above settings.

*1. If settings have been made without an administrator password of the web browser control, add 2-byte “00” instead of STX, and a line-feed code (0Dh) instead of ETX.
If settings have been made with an administrator password, of the web browser control, add a 32-byte hash value and “00” instead of STX and a line-feed code (0Dh) instead of ETX.
The hash value is created by MD5 combining “admin1:”, password, “:” and random numbers. The random numbers are 8-byte values sent from the projector when connecting.

NETWORK STATUS

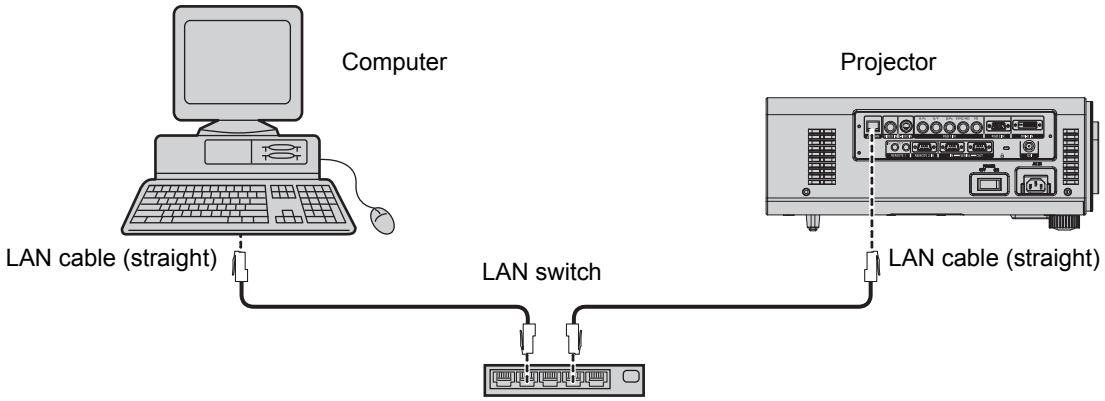
You can display the current network status of the projector. Press the **ENTER** button to display.

- **DHCP**
- **IP ADDRESS**
- **SUBNET MASK**
- **DEFAULT GATEWAY**
- **DNS1**
- **DNS2**
- **MAC ADDRESS**

Technical Information

Network connection

You can control the projector from a computer with web browser, for adjusting the menu settings, displaying status of the projector and transmission of E-mail messages if there is a problem with the projector.



NOTE:

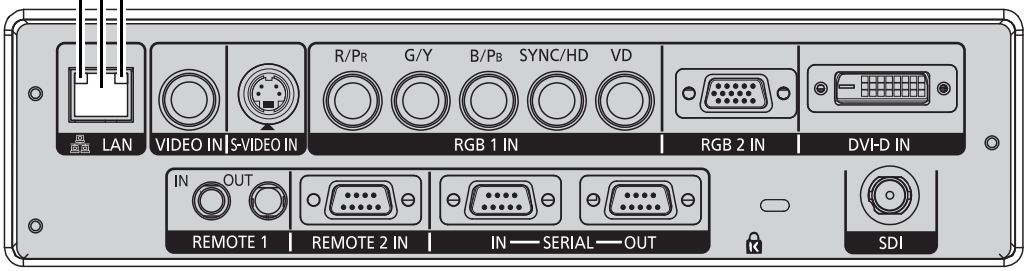
- A LAN cable is required to use the network function. A cross cable is required when connecting directly to a computer. Straight cables are used when connecting through a switch or router.
- A web browser is required to use this function. Make sure that a web browser is available in the system.
- Use Microsoft Windows 98SE/Me/NT4.0/2000/XP/Vista for the OS of your personal computer.
- The Web browser should be Internet Explorer 6.0 or newer.
- To use the E-mail function, communication with E-mail server must be established. Make sure that E-mail feature is available in your system.
- Use a straight insulated LAN cable which supports category 5 or above.
- The length of LAN cable must be 100 m or shorter.

LAN terminal

LAN LINK/ACT lamp (green)
Lights when a LAN cable is connected and flashes when signals are being received or sent.

LAN terminal (10BASE-T/100BASE-TX)
Connecting LAN cable.

LAN 10/100 lamp (yellow)
Lights when a 100BASE-TX connection is established.



NOTE:

- If the LAN terminal is touched by electrostatically charged hands or body, failure may be caused by the discharge of static electricity. Be careful not to touch metallic part of LAN terminal or LAN cable.
- Connect indoor equipment to the LAN.

Appendix

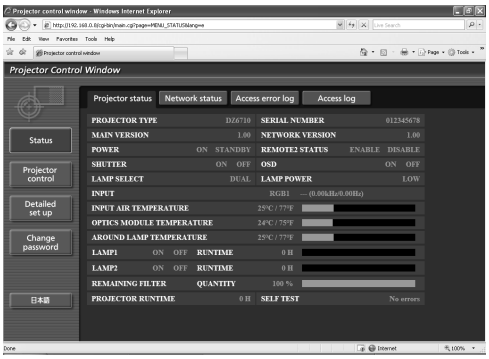
Accessing with the web browser

Projector Control Window

1. Activate the web browser of the computer.
2. Enter the **IP ADDRESS** set by the projector into the URL input field of the web browser.
 - See “NETWORK STATUS” on page 37.
3. Enter your user name and password.
 - The factory default settings are “user1” (user privileges) or “admin” (administrator privileges) for the user name and panasonic (lowercase) for the password.



4. Click **OK** and display the **Projector Control Window**.
5. Click the required item button on the left.



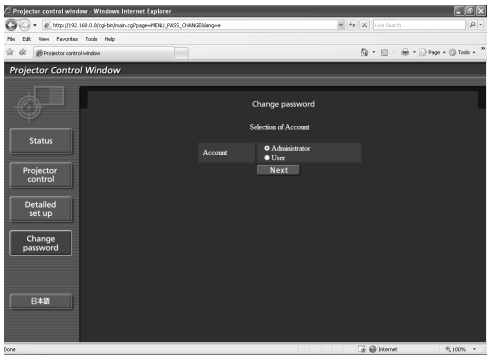
NOTE:

- Avoid activating two or more web browser simultaneously to work out setting or control actions.
- Change the password first of all.
- Administrator privileges enable the use of all functions. User privileges enable the use of only **Projector status**, **Error information**, **Network status**, **Basic control**, and **Change password**.
- If the password is incorrectly entered three times in a row, the lock is set for several minutes.

Change password

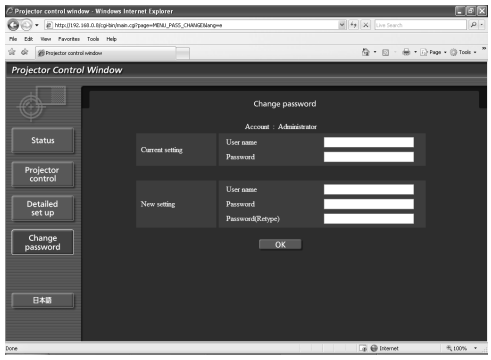
Administrator mode

1. Select **Administrator** to change and click **NEXT**.

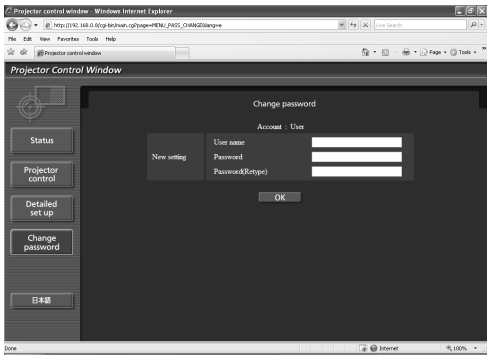


2. Enter **User name** and **Password**.

Administrator account	
Current setting	
User name	Enter the current user name.
Password	Enter the current password for the user name.
New setting	
User name	Enter new user name.
Password	Enter new password.
Password(Retype)	Enter the new password again.



User account	
New setting	
User name	Enter new user name.
Password	Enter new password.
Password(Retype)	Enter the new password again.

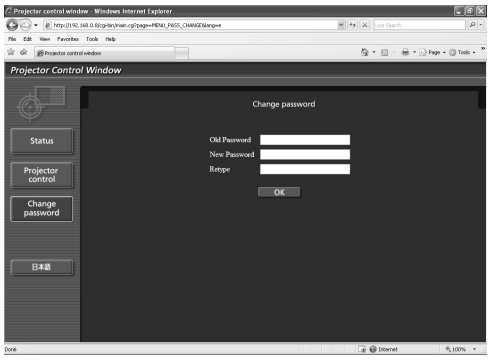


3. Click **OK**.

User mode

A user can change password only. Enter your old password and new password, then click **OK**.

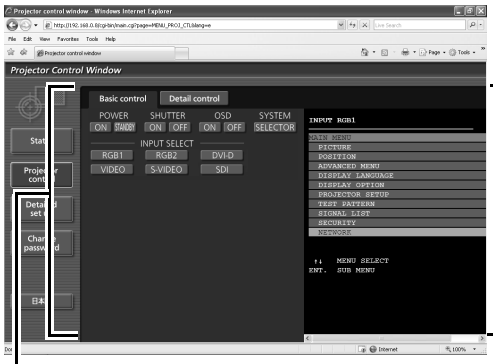
User account	
New setting	
User name	Enter new user name.
Password	Enter new password.
Retype	Enter the new password again.



Projector Control

Basic control

Click the **Basic control** tab on the top.



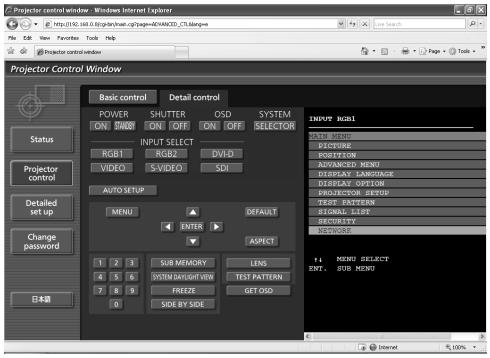
Indicates projecting status. Even when the screen is cleared by pressing the **ON SCREEN** button of the remote control, the information will be displayed.

Adjustable items

- **POWER** Switches projector **ON** or **STANDBY**.
- **SHUTTER** Temporary halt the projection.
- **OSD** Turn on/off the on screen display.
- **SYSTEM** Changes colour system.
- **INPUT SELECT**
 Changes terminal of input signal.

Detail control

Click the **Detail control** tab on the top. You can control the projector as same as controlling the remote control.



Web browser buttons	Remote control buttons*1
POWER: ON/STANDBY	**POWER ON** and **STANDBY**
SHUTTER: ON/OFF	**SHUTTER**
OSD: ON/OFF	**ON SCREEN**
INPUT SELECT: RGB1/RGB2/ DVI-D/VIDEO/S-VIDEO/SDI	**RGB1/RGB2/DVI-D/VIDEO/ S-VIDEO/SDI**
AUTO SETUP	**AUTO SETUP**
MENU	**MENU**
▲ ▼ ◄ ► ENTER	**▲ ▼ ◄ ► ENTER**
DEFAULT	**DEFAULT**
ASPECT	**ASPECT** See “ASPECT” on page 18.
Numeric buttons	Numeric buttons
LENS	**FOCUS/ZOOM/SHIFT**
TEST PATTERN	**TEST PATTERN** See “TEST PATTERN” on page 32.

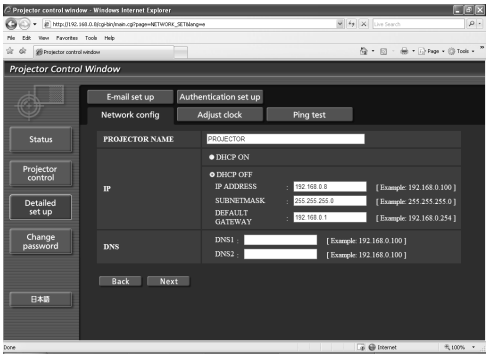
Web browser buttons	Remote control buttons*1
SUB MEMORY/SYSTEM DAYLIGHT VIEW/FREEZE/ SIDE BY SIDE	**FUNCTION** (Assignable functions in the menu) See “FUNCTION BUTTON” on page 30.

*1. See the operation instruction booklet that is provided with the projector.

Detailed set up

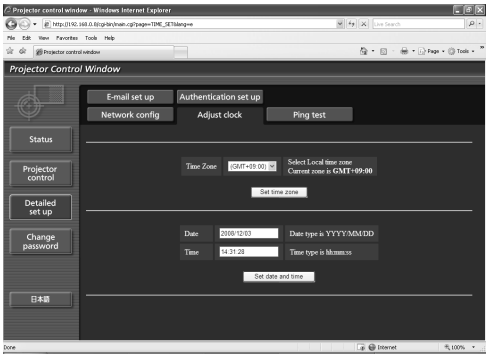
Network config

Click the **Network config** tag on the top. When all options are filled, click **NEXT**. The confirmation screen will be displayed.



Adjust clock

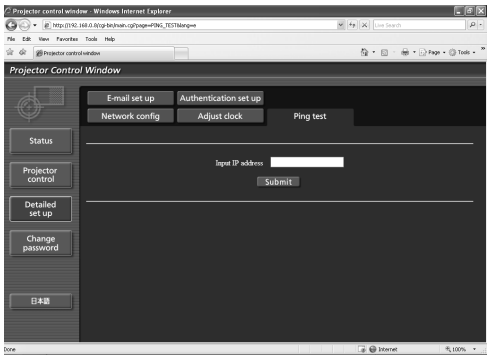
Click the **Adjust clock** tag on the top.



Items	Description
Time Zone	Select the located time zone, then click **Set time zone**.
Date	Enter the current date by **YYYY/MM/DD**, then click **Set date and time**.
Time	Enter the current time by **hh:mm:ss**, then click **Set date and time**.

Ping test

Click the **Ping test** tag on the top.



Items	Description
Input IP address	Enter the required IP address, such as E-mail server, POP server or DNS server, then click **Submit** to check whether the connection is functioned.
Connect success	PING 198.245.80.10 (198.245.80.10): 56 data bytes 64 bytes from 198.245.80.10: icmp_seq=0 ttl=255 time=0.7 ms 64 bytes from 198.245.80.10: icmp_seq=1 ttl=255 time=0.4 ms 64 bytes from 198.245.80.10: icmp_seq=2 ttl=255 time=0.4 ms 64 bytes from 198.245.80.10: icmp_seq=3 ttl=255 time=0.4 ms --- 198.245.80.10 ping statistics --- 4 packets transmitted, 4 packets received, 0% packet loss round-trip min/avg/max = 0.4/0.4/0.7 ms
Connect failure	PING 198.245.80.100 (198.245.80.100): 56 data bytes --- 198.245.80.100 ping statistics --- 4 packets transmitted, 0 packets received, 100% packet loss

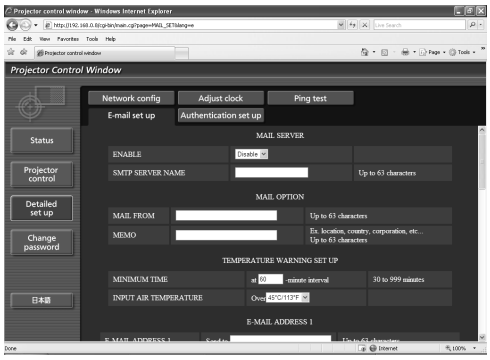
Authentication set up

Click the **Authentication set up** tag on the top. When all options are filled, click **Submit**.

Items	Description
Auth	Select the authentication method specified by your internet service provider.
SMTP Auth	Select the required option for when **SMTP Auth** is selected in **Auth**.
Pop server name	Enter the POP server name. Available input characters: Alphanumeric characters (A - Z, a - z, 0 - 9), hyphen (-), period (.)
User name	Enter POP server user name.
Password	Enter POP server password.
SMTP server port	Enter the port number for the SMTP server. (normally “25”)
POP server port	Enter the port number for the POP server. (normally “10”)

E-mail set up

Click the **E-mail set up** tag on the top. When all options are filled, click **Submit**.



Items	Description
MAIL SERVER	
ENABLE	Select **Enable** to use the E-mail function.
SMTP SERVER NAME	Enter the IP address or server name of the E-mail server (SMTP). The DNS server must be set if the server name is entered.
MAIL OPTION	
MAIL FROM	Enter the E-mail address of the projector control. (maximum 63 characters)
MEMO	Enter the information to identify the projector, such as location. (maximum 63 characters)
TEMPERATURE WARNING SET UP	
MINIMUM TIME	Modify the minimum time interval of temperature warning mail. The projector will not send another mail for 60 minutes even the temperature of the projector is reached over the **INPUT AIR TEMPERATURE** setting.
INPUT AIR TEMPERATURE	Modify the threshold temperature for sending temperature warning value, control sends temperature warning mail.

Items	Description
E-MAIL ADDRESS 1/E-MAIL ADDRESS 2	
E-MAIL ADDRESS 1/ E-MAIL ADDRESS 2	Register the recipient E-mail address. Available to register up to 2 E-mail address.
MAIL CONTENTS	Select **NORMAL** version or **SIMPLE** version of the contents.
ERROR	Sends E-mail when detects an error.
LAMP1 RUNTIME	Sends E-mail when lamp runtime of the lamp1 reaches the set time.
LAMP1 RUNTIME	
LAMP2 RUNTIME	Sends E-mail when lamp runtime of the lamp2 reaches the set time.
LAMP2 RUNTIME	
INPUT AIR TEMPERATURE	Sends E-mail when input air temperature is reached **INPUT AIR TEMPERATURE** in **TEMPERATURE WARNING SET UP** set time.
PERIODIC REPORT	Sends E-mail on checked times of the checked days.

E-mail report sample

```
=== Panasonic projector report(CONFIGURE) ===
Projector Type          : DZ6710
Serial No      :012345678

--- E-mail setup data ---
TEMPERATURE WARNING SETUP
MINIMUM TIME            at [ 60] minutes interval
INPUT AIR TEMPERATURE  Over [ 30C / 86F ]

ERROR          [ OFF ]
LAMP1 RUNTIME          [ OFF ]      at REMAIN [ 400] H
LAMP1 RUNTIME          [ OFF ]      at REMAIN [ 200] H
LAMP2 RUNTIME          [ OFF ]      at REMAIN [ 400] H
LAMP2 RUNTIME          [ OFF ]      at REMAIN [ 200] H
FILTER REMAIN          [ OFF ]      at REMAIN [ 400] H
FILTER REMAIN          [ OFF ]      at REMAIN [ 200] H
INPUT AIR TEMPERATURE  [ OFF ]
PERIODIC REPORT
Sunday                                                    Wednesday [ ON ]
```

Error report sample

```
=== Panasonic projector report(ERROR) ===
Projector Type          : DZ6710
Serial No      :012345678

--- check system ---
MAIN CPU BUS            [          OK          ]
FAN            [          OK          ]
INPUT AIR TEMPERATURE  [ FAILED ]
OPTICS MODULE TEMPERATURE          [          OK          ]
AROUND LAMP TEMPERATURE            [          OK          ]
LAMP1 REMAIN TIME      [          OK          ]
LAMP2 REMAIN TIME      [          OK          ]
LAMP1 STATUS           [          OK          ]
LAMP2 STATUS           [          OK          ]
SHUTTER        [          OK          ]
INPUT AIR TEMP.SENSOR  [          OK          ]
OPTICS MODULE TEMP.SENSOR          [          OK          ]
AROUND LAMP            [          OK          ]
```

STATUS

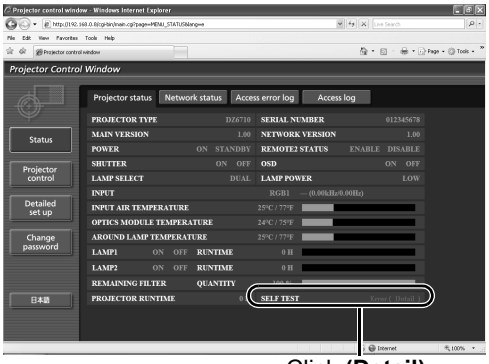
Projector status

Click the **Projector status** tab on the top.

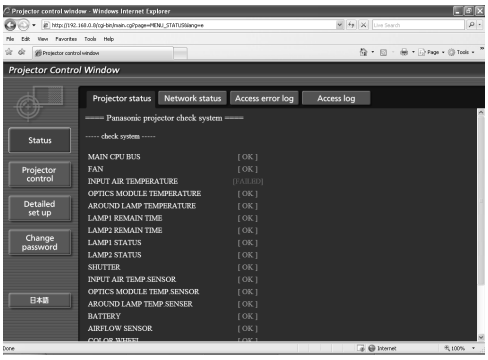
PROJECTOR TYPE	Displays the type of projector.
MAIN VERSION	Displays the firmware version of the projector main unit.
INPUT	Displays the input switching status.
INPUT AIR TEMPERATURE	Displays temperature of projector's intake air.
OPTICS MODULE TEMPERATURE	Displays temperature inside the projector.
AROUND LAMP TEMPERATURE	Displays temperature around lamp units.
LAMP1 RUNTIME/LAMP2 RUNTIME	Displays the lamp lit hours.
PROJECTOR RUNTIME	Displays used hours of the projector.
SELF TEST	Displays self diagnosis information.

Error information

When **Error (Detail)** is displayed in **SELF TEST** in the status list, click **(Detail)** to display the error details.



Click **(Detail)**



Parameter	Description
MAIN CPU BUS	Trouble has occurred in the microcomputer circuitry. Consult your dealer.
FAN	Trouble has occurred in the fan or its drive circuit. Consult your dealer.
INPUT AIR TEMPERATURE	The input air temperature is too high. It may be that the projector is being used in an operating environment where the temperature is high such as near a heating appliance.
OPTICS MODULE TEMPERATURE	The temperature inside the projector is high. It may be that the projector is being used in an operating environment where the temperature is high such as near a heating appliance.
AROUND LAMP TEMPERATURE	The temperature around the lamp is too high. It may be that the projector's ventilation holes are blocked.
LAMP1 REMAIN TIME	The lamp runtime has exceeded the prescribed cumulative time, and it is now time to replace the lamp.
LAMP2 REMAIN TIME	
LAMP1 STATUS	The lamp has failed to light. Wait a short while for the lamp to cool off, and then turn on the power.
LAMP2 STATUS	
SHUTTER	Trouble has occurred in the shutter circuitry. Consult your dealer.
INPUT AIR TEMP.SENSOR	Trouble has occurred in the sensor used to detect the input air temperature. Consult your dealer.
OPTICS MODULE TEMP.SENSOR	Trouble has occurred in the temperature detection sensor inside the projector. Consult your dealer.
AROUND LAMP TEMP.SENSOR	Trouble has occurred in the sensor used to detect the exhaust air temperature. Consult your dealer.
BATTERY	The backup battery has been run out. Consult your dealer.
AIRFLOW SENSOR	Trouble has occurred in the sensor used to detect the airflow volume. Consult your dealer.
COLOR WHEEL	Trouble has occured in the colour wheel or colour wheel or its drive circuit. Consult your dealer.
COVER OPEN	The lamp unit cover is not attached securely. Check the lamp unit compartment.
ACF UNIT	The air cleaning filter (ACF) is not installed or trouble has occurred. See the operating instructions booklet that is provided with the projector.
FILTER REMAIN	The filter remaining is getting less. See the operating instructions booklet that is provided with the projector.

PJLink™protocol

The network function of the projector supports PJLink™ class 1, and the PJLink™ protocol can be used to perform projector setting and projector status query operations from a computer.

Control commands

Command	Control details	Parameters/Notes
POWR	Power supply control	0 = Standby 1 = Power ON
POWR ?	Power supply status query	0 = Standby 1 = Power ON 2 = Cool-down in progress 2 = Warm-up in progress
INPT	Input selection	11 = RGB1 12 = RGB2 21 = VIDEO 22 = S-VIDEO 31 = DVI-D 32 = SDI (PT-DZ6710 only)
INPT ?	Input selection query	
AVMT	Shutter control	30 = Shutter mode off (picture mute cancelled) 31 = Shutter mode on (picture mute)
AVMT ?	Shutter mode query	
ERST ?	Error status query	1st byte: Indicates fan errors, range 0 - 2. 2nd byte: Indicates lamp errors, range 0 - 2. 3rd byte: Indicates temperature errors, range 0 - 2. 4th byte: Indicates cover open errors, range 0 - 2. 5th byte: Indicates filter errors, range 0 - 2. 6th byte: Indicates other errors, range 0 - 2. Definitions for each value from 0 - 2 are as follows. 0 = No error known 1 = Warning 2 = Error
LAMP ?	Lamp status query	1st digits (1 - 5 digits): Lamp 1 cumulative operating time 2nd digit: 0 = Lamp 1 off, 1 = Lamp 1 on 3rd digits (1 - 5 digits): Lamp 2 cumulative operating time 4th digit: 0 = Lamp 2 off, 1 = Lamp 2 on
INST ?	Input selection list query	The following are returned as parameters. “11 12 21 22 31” for PT-DZ6700, PT-DW6300, PT-D6000 and PT-D5000 “11 12 21 22 31 32” for PT-DZ6710
NAME ?	Projector name query	The name set for PROJECTOR NAME in NETWORK menu.
INF1 ?	Manufacturer name query	“Panasonic” is returned.
INF2 ?	Model name query	“DZ6710, DZ6700, DW6300, D6000 or D5000 is returned.
INF0 ?	Other information query	Information such as version number is returned.
CLSS ?	Class information.	“1” is returned

PJLink™ security authorization

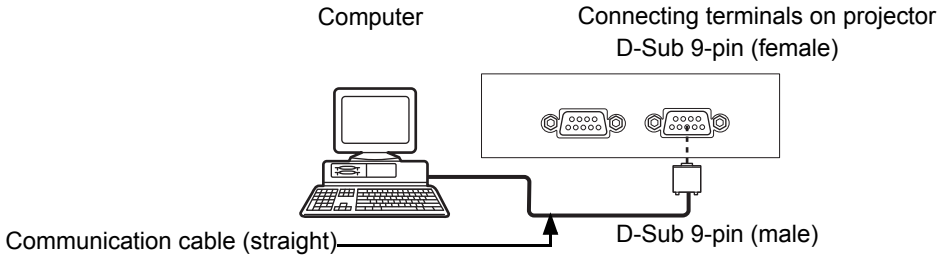
When using PJLink™ with security authorization, either of the password set for administrator privileges and the password set for user privileges with web browser control can be used as the password for PJLink™.
When using PJLink™ without security authorization, set use without the password for administrator privileges and the password for user privileges of web browser control.
PJLink™ is a pending trademark in Japan, the United States, and other countries and regions. For specifications regarding PJLink™, refer to the Japan Business Machine and Information System Industries Association website.
URL: http://pjlink.jbmia.or.jp/

Serial terminal

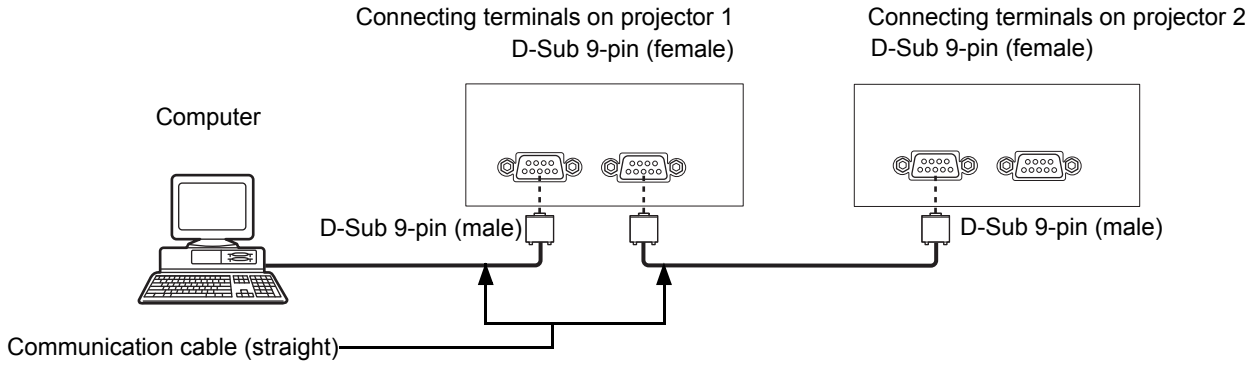
The serial connector which is on the connector panel of the projector conforms to the RS-232C interface specification, so that the projector can be controlled by a personal computer which is connected to this connecter.

Connection

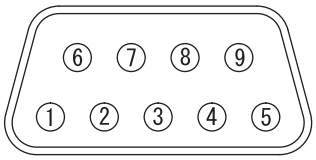
Single projector



Multiple projectors



Pin assignments and signal names



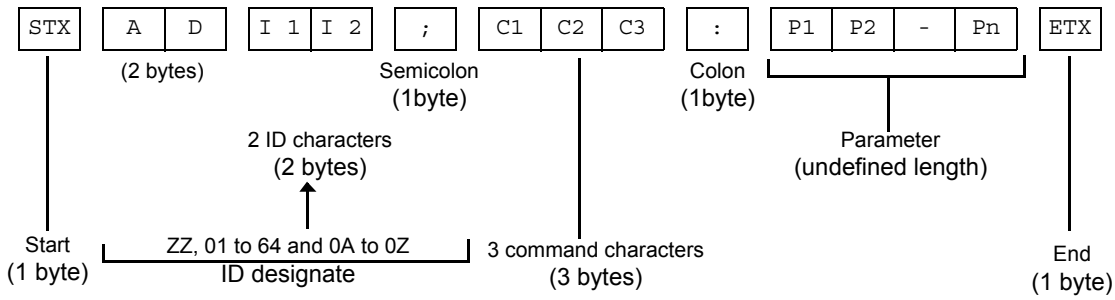
Pin No.	Female		Male	
	Signal name	Contents	Signal name	Contents
1		NC		NC
2	TXD	Transmitted data	RXD	Received data
3	RXD	Received data	TXD	Transmitted data
4		Connected internally		Connected internally
5	GND	Earth	GND	Earth
6		NC		NC
7	CTS	Connected internally	RTS	Connected internally
8	RTS		CTS	
9		NC		NC

Communication settings

See “RS-232C” on page 29.

Signal level	RS-232C	**Character length**	8 bits
Sync. method	Asynchronous	**Stop bit**	1 bit
Baud rate	9 600 bps	**X parameter**	None
Parity	None	**S parameter**	None

Basic format

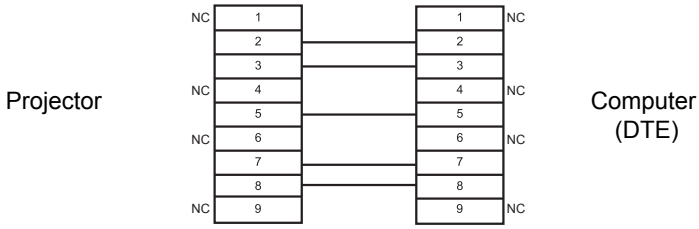


NOTE:

- No command can be sent or received for 10 to 60 seconds after the lamp starts lighting. Try sending any command after that period has elapsed.
- When transmitting multiple commands, be sure to wait until 0.5 seconds has elapsed after receiving the response from the projector before sending the next command. When sending commands without parameters, a colon (:) is not necessary.
- When the wrong command is sent, the “ER401” or “ER402” status is sent from the projector to the personal computer.
- Projector ID supported on the RS-232C interface is ZZ (ALL) and a group of 01 to 64 and 0A to 0Z.
- The “STX” character code is 02 and the “ETX” character code is 03.
- If a command is sent with a projector ID specified, the projector will return answer back only in the following cases:
 If it coincides with the projector ID
 If the ID specification is ALL and responding (ID ALL) is on
 If the ID specification is Group and responding (ID Group) is on

Cable specifications

(When connected to a computer)



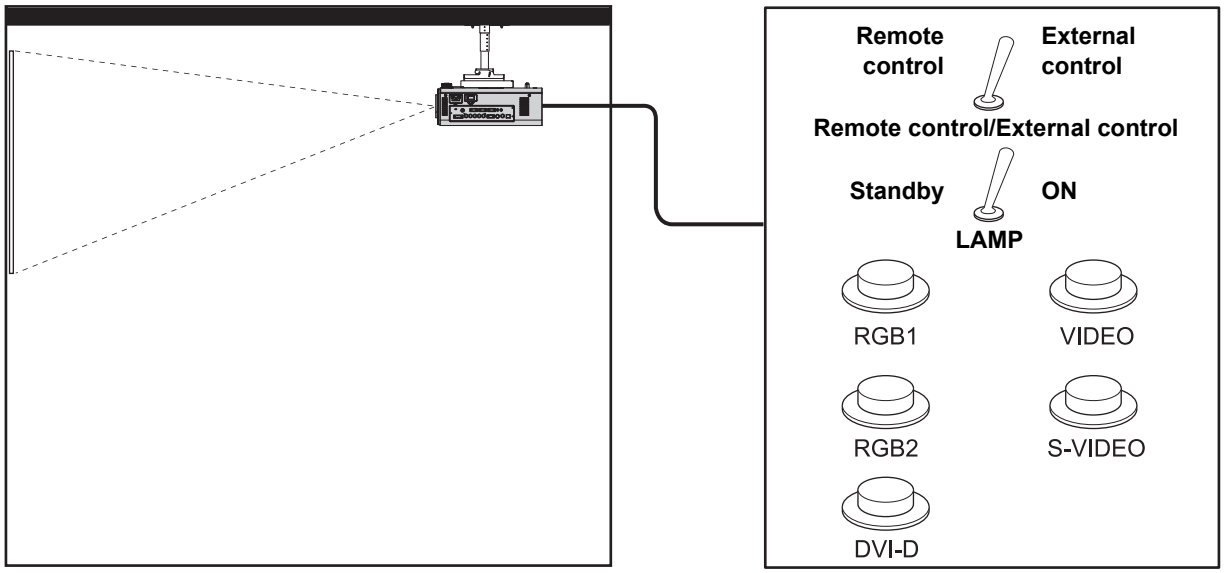
Control commands

Command	Control contents	Parameter/Remarks	
PON	Power ON	In standby mode, all commands other than the PON command are ignored. ● The PON command is ignored during lamp ON control.	
POF	Power OFF		
QPW	Power query	000 = Standby	001 = Power ON
IIS	Switch input modes	VID = VIDEO RG1 = RGB1 DVI = DVI	SVD = S-VIDEO RG2 = RGB2 SDI = SDI (PT-DZ6710 only)
QSL	Query for active lamp mode	0 = DUAL 2 = Only LAMP 1 is on ● SINGLE will use the lamp (LAMP 1 or LAMP 2) with shorter operating hours.	1 = SINGLE 3 = Only LAMP 2 is on
LPM	Active lamp mode	0 = DUAL 2 = Only LAMP 1 is on	1 = SINGLE 3 = Only LAMP 2 is on
OLP *	Lamp power setting	0 = HIGH	1 = LOW

* Not available for PT-D5000.

REMOTE 2 IN terminal

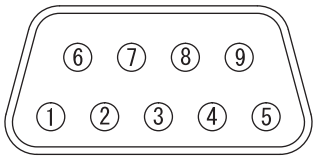
Using the **REMOTE 2 IN** terminal provided on the connection terminals of the main unit, it is possible to operate the projector from a control panel etc. furnished in a distant location where infrared remote control signal cannot be received.



Projector set up in a meeting room

Control panel located in a different room

Pin assignments and control



Pin No.	Signal name	Open (H)	Short (L)
1	GND		GND
2	POWER	OFF	ON
3	RGB1	Other	RGB1
4	RGB2	Other	RGB2
5	VIDEO	Other	VIDEO
6	S-VIDEO	Other	S-VIDEO
7	DVI-D	Other	DVI-D
8	SHUTTER	OFF	ON
9	RST / SET	Controlled by remote control	Controlled by external contact

NOTE:

- The following buttons on the remote control and the operation area of the projector can no longer be operated when pins 1 and 9 are shortened: **POWER** button and **SHUTTER** button. Neither will it be possible to use the RS-232C commands or network functions corresponding to these functions.
- If you short pin 1 and pin 9, and also short one of the pins from 3 to 7 and pin 1, then the following buttons on the projector operating area and the remote control can no longer be operated: **POWER**, **RGB1**, **RGB2**, **DVI-D**, **VIDEO**, **S-VIDEO**, **SDI** and **SHUTTER** buttons. Neither will it be possible to use the RS-232C commands or network functions corresponding to these functions.

SIDE BY SIDE function signal combination table

(PT-DZ6710/PT-DZ6700/PT-DW6300 only)

● Side by Side function signal combination table

Main image / Sub image		RGB1		RGB2		VIDEO	S-VIDEO	DVI-D		SDI*1
		Still	Movie	Still	Movie			Still	Movie	
RGB1	Still	N/A	N/A	OK	OK	OK	OK	OK	OK	OK
	Movie	N/A	N/A	OK	N/A	N/A	N/A	OK	N/A	N/A
RGB2	Still	OK	OK	N/A	N/A	OK	OK	OK	OK	OK
	Movie	OK	N/A	N/A	N/A	N/A	N/A	OK	N/A	N/A
VIDEO		OK	N/A	OK	N/A	N/A	N/A	OK	N/A	N/A
S-VIDEO		OK	N/A	OK	N/A	N/A	N/A	OK	N/A	N/A
DVI-D	Still	OK	OK	OK	OK	OK	OK	N/A	N/A	N/A
	Movie	OK	N/A	OK	N/A	N/A	N/A	N/A	N/A	N/A
SDI*1		OK	N/A	OK	N/A	N/A	N/A	N/A	N/A	N/A

*1. PT-DZ6710 only.

● Movie signals

525i, 625i, 525p, 625p, 1 080/60i, 1 080/50i, 1 080/60p, 1 080/50p, 720/60p, 720/60p, NTSC, PAL and. SECAM.

Restoring the MENU LOCK PASSWORD to default

1. Press the **MENU** button to display the password asking screen.
2. Press the **AUTO SETUP** button for more than 2 seconds.
3. ▼ for more than 2 seconds.
4. Press the **MENU** to display the password asking screen.
5. Enter the factory default password, “AAAA”, by pressing ▲ ▼ ◄ ►.
6. Select **OK** and press the **ENTER** button.

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- Microsoft and Microsoft logos, Windows, Windows® XP, and Windows Vista® are the registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Other types of names such as company names and product names appearing in this instruction manual are trademarks or registered trademarks of their respective holders. The ® and TM marks are not indicated in this instruction manual.

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